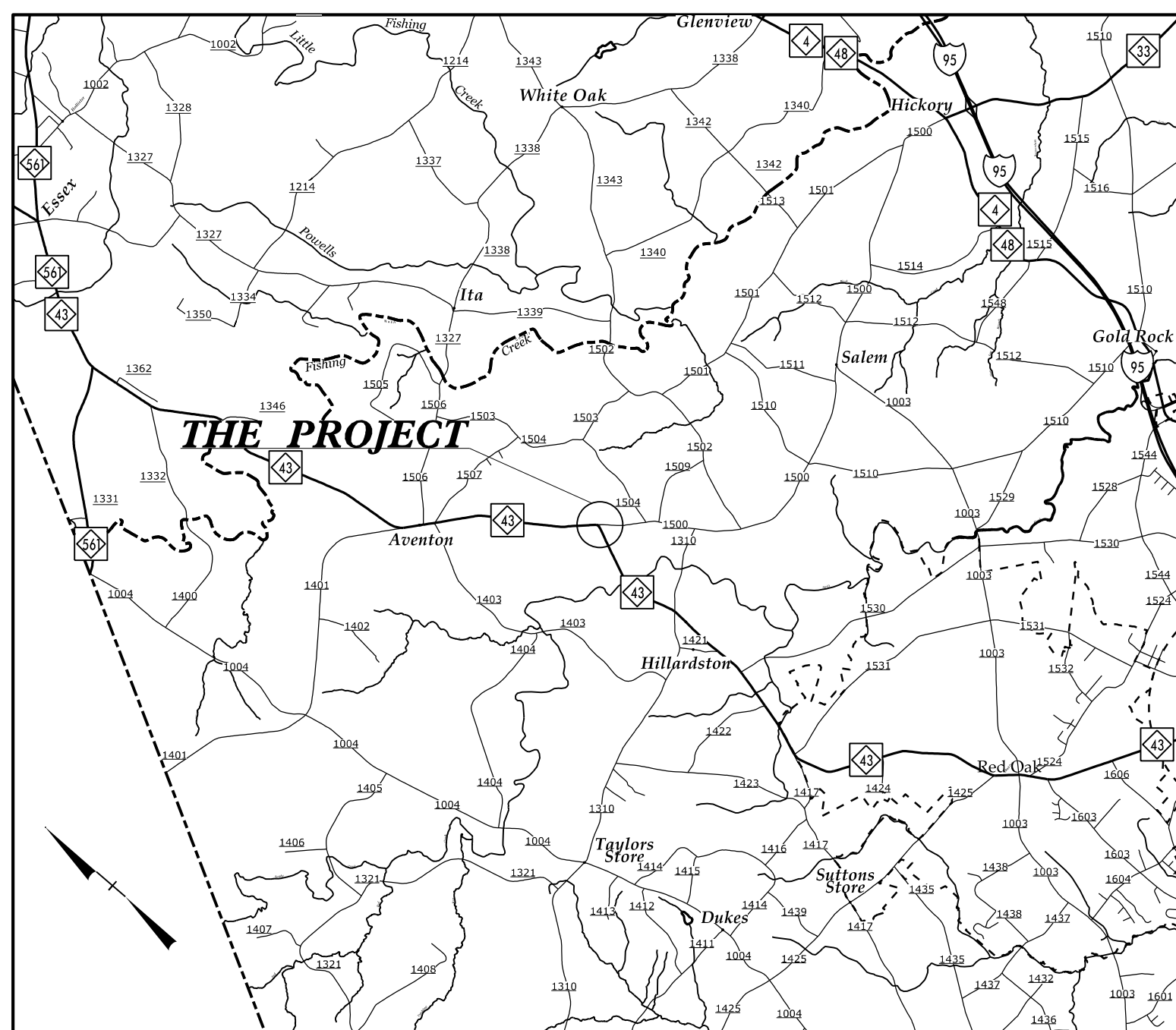


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with their signature on that page.**

**This file or an individual page
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See Sheet 1-A For Index of Sheets



VICINITY MAP

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

NASH COUNTY

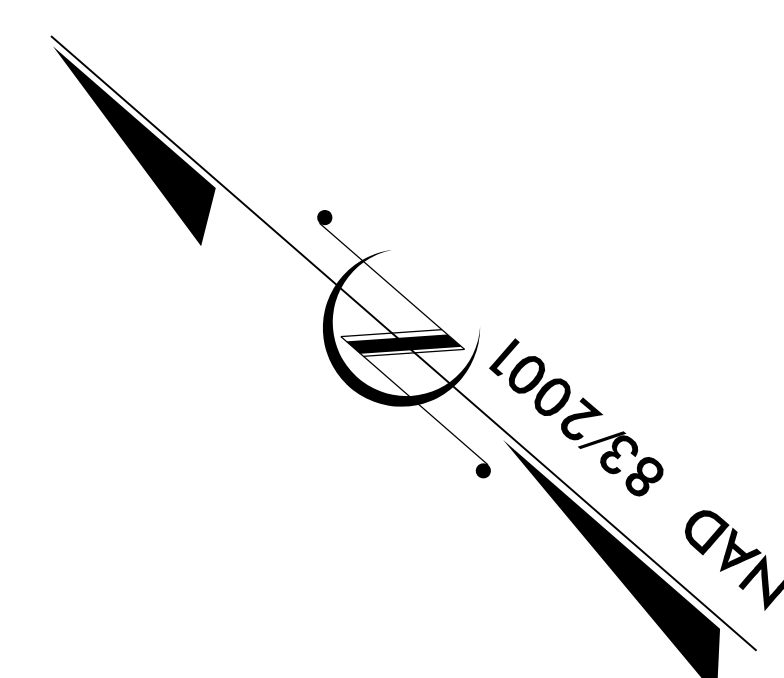
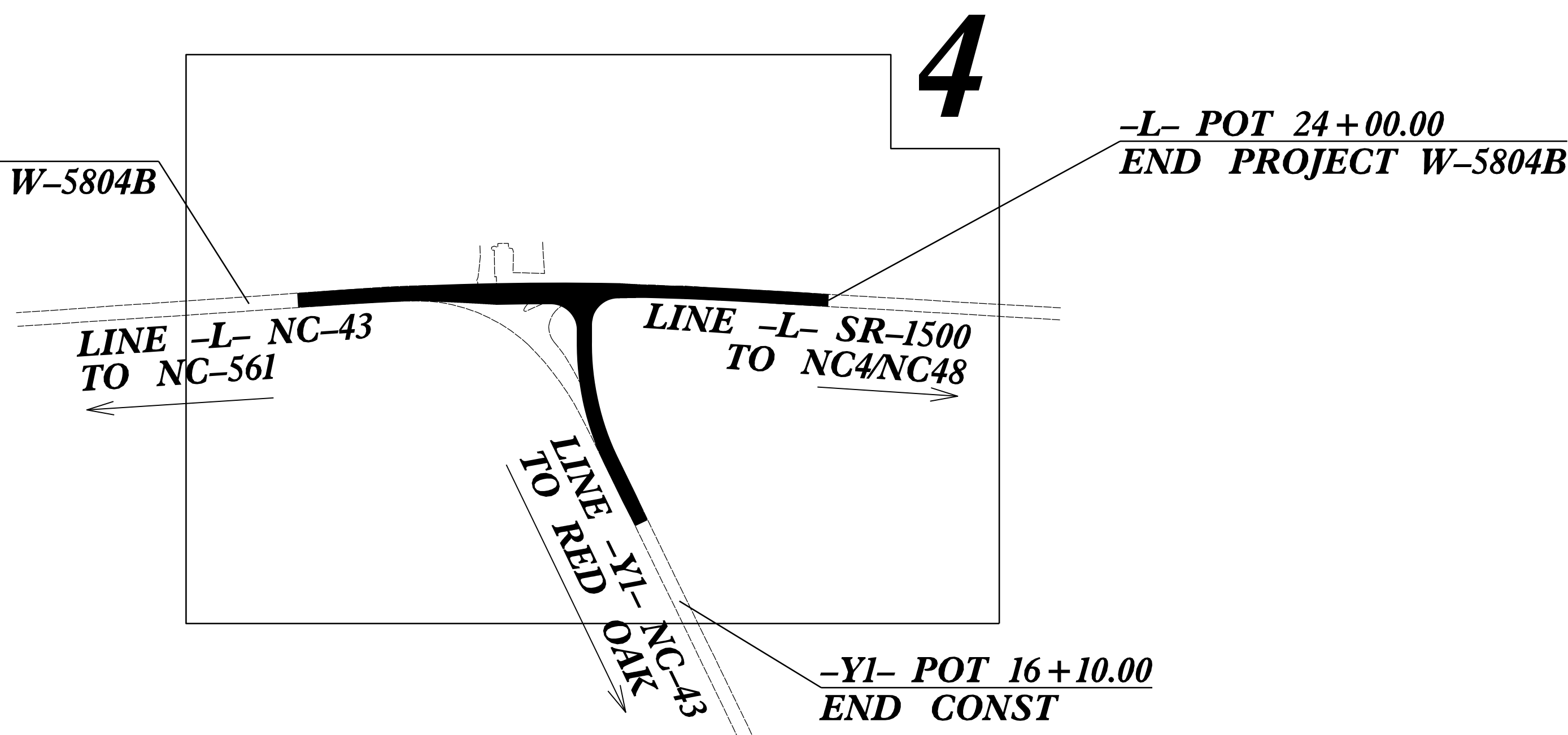
LOCATION: NC-43 AT SR-1500 (SWIFT CREEK SCHOOL ROAD), REALIGN INTERSECTION

TYPE OF WORK: GRADING, DRAINAGE AND PAVING

| STATE | STATE PROJECT REFERENCE NO. | SHEET NO. | TOTAL SHEETS |
|-----------------|-----------------------------|---------------|--------------|
| N.C. | W-5804B | 1 | |
| STATE PROJ. NO. | F. A. PROJ. NO. | DESCRIPTION | |
| 48949.1.3 | 0043032 | PE | |
| 48949.2.3 | 0043032 | R/W & UTILITY | |
| 48949.3.3 | 0043032 | CONST. | |
| | | | |
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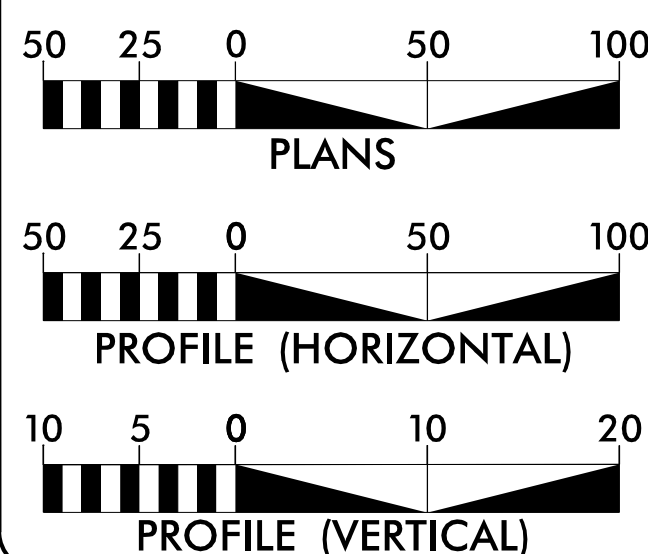
TIP PROJECT: W-5804B

CONTRACT: DD00432



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES



DESIGN DATA

ADT 2019 = 2500
ADT =
K = %
D = %
T = % *
V = MPH
* TTST = DUAL
FUNCTIONAL CLASS
MAJOR COLLECTOR

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT W-5804B = 0.203 MILES
TOTAL LENGTH TIP PROJECT W-5804B = 0.203 MILES

Prepared in the Office of:
DIVISION OF HIGHWAYS

Division 4 DDC
509 Ward Blvd., Wilson NC, 27895

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
NOVEMBER 18, 2022

LETTING DATE:
JULY 25, 2023

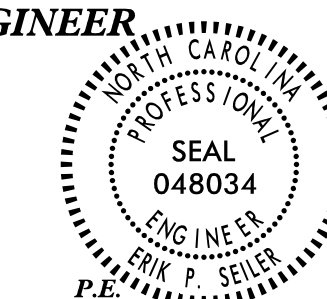
KEITH EASON, PE
PROJECT ENGINEER

D.R. ETHRIDGE
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

06/20/2023

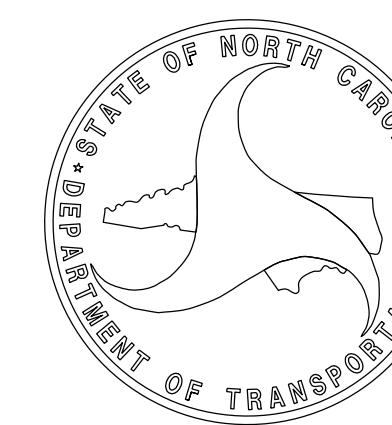
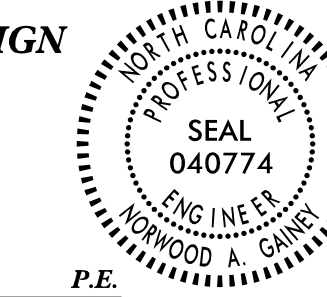
DocuSigned by:
Erik P. Suler
SIGNATURE:



ROADWAY DESIGN ENGINEER

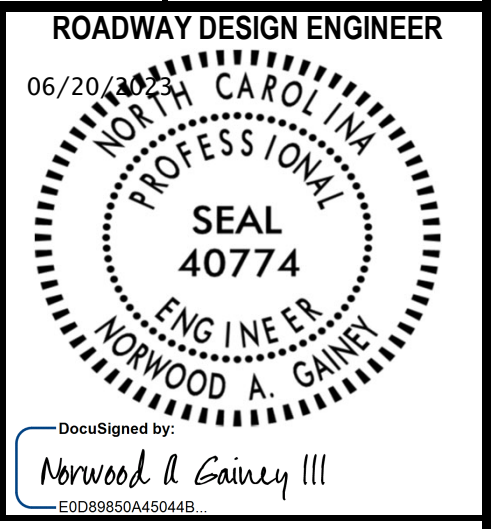
06/20/2023

DocuSigned by:
Norwood A. Gaivey III
SIGNATURE:



STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

| | |
|--------------------------------|------------------|
| PROJ. REFERENCE NO. W-5804B | SHEET NO. 1-A |
|--------------------------------|------------------|



2018 ROADWAY ENGLISH STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" HIGHWAY DESIGN BRANCH - N. C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N. C., DATED JANUARY, 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

- DIVISION 2 - EARTHWORK
 - 200.03 METHOD OF CLEARING - METHOD III
 - 225.02 GUIDE FOR GRADING SUBGRADE - SECONDARY AND LOCAL
 - 225.04 METHOD OF OBTAINING SUPERELEVATION - TWO LANE PAVEMENT
 - 225.06 METHOD OF GRADING SIGHT DISTANCE AT INTERSECTIONS
- DIVISION 3 - PIPE CULVERTS
 - 300.01 METHOD OF PIPE INSTALLATION
 - 310.10 DRIVEWAY PIPE CONSTRUCTION
- DIVISION 5 - SUBGRADE, BASES AND SHOULDERS
 - 560.01 METHOD OF SHOULDER CONSTRUCTION - HIGH SIDE OF SUPERELEVATED CURVE - METHOD I
- DIVISION 6 - ASPHALT BASES AND PAVEMENTS
 - 654.01 PAVEMENT REPAIRS
- DIVISION 8 - INCIDENTALS
 - 840.71 CONCRETE AND BRICK PIPE PLUG
 - 840.72 PIPE COLLAR

GENERAL NOTES: 2018 SPECIFICATIONS

GRADE LINE:
GRADING AND SURFACING OR RESURFACING AND WIDENING:
 THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. WHERE NO GRADE LINES ARE SHOWN, THE PROFILES SHOWN DENOTE THE TOP ELEVATION OF THE EXISTING PAVEMENT ALONG THE CENTER LINE OF SURVEY ON WHICH THE PROPOSED RESURFACING WILL BE PLACED. GRADE LINES MAY BE ADJUSTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

CLEARING:
 CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.

SUPERELEVATION:
 ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04. USING THE RATE OF SUPERELEVATION AND RUNOFF SHOWN ON THE PLANS. SUPERELEVATION IS TO BE REVOLVED ABOUT THE GRADE POINTS SHOWN ON THE TYPICAL SECTIONS.

SHOULDER CONSTRUCTION:
 ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.01

SIDE ROADS:
 THE CONTRACTOR WILL BE REQUIRED TO DO ALL NECESSARY WORK TO PROVIDE SUITABLE CONNECTIONS WITH ALL ROADS, STREETS, AND DRIVES ENTERING THIS PROJECT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PARTICULAR ITEMS INVOLVED.

TEMPORARY SHORING:
 SHORING REQUIRED FOR THE MAINTENANCE OF TRAFFIC WILL BE PAID FOR AS "EXTRA WORK" IN ACCORDANCE WITH SECTION 104-7.

SUBSURFACE PLANS:
 NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS.

UTILITIES:
 UTILITY OWNERS ON THIS PROJECT ARE:
 BRIGHTSPEED AND DUKE ENERGY.

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS, EXCEPT AS SHOWN ON THE PLANS.

RIGHT-OF-WAY MARKERS:
 ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY OTHERS.

| SHEET NUMBER | INDEX OF SHEETS SHEET |
|--------------------|--|
| 1 | TITLE SHEET |
| 1A | INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS |
| 1B | CONVENTIONAL SYMBOLS |
| 2A-1 THRU 2A-2 | PAVEMENT SCHEDULE AND TYPICAL SECTIONS |
| 3B-1 | ROADWAY SUMMARIES - DRAINAGE, EARTHWORK, PARCEL INDEX, REMOVAL OF EXISTING ASPHALT PAVEMENT AND RIP RAP & GEOTEXTILE |
| 4 | PLAN SHEET |
| 5 | PROFILE SHEET |
| RW-01 THRU RW-04 | SURVEY CONTROL, EXISTING CENTERLINES RIGHT OF WAY, EASEMENTS AND PROPERTY TIES |
| PMP-1 THRU PMP-2 | PAVEMENT MARKING PLANS |
| EC-1 THRU EC-5 | EROSION CONTROL PLANS |
| SIGN-1 THRU SIGN-3 | SIGNING PLANS |
| X-1 | CROSS-SECTION INDEX |
| X-2 THRU X-13 | CROSS-SECTIONS |

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS CONVENTIONAL PLAN SHEET SYMBOLS

Note: Not to Scale

BOUNDARIES AND PROPERTY:

| | |
|---------------------------------------|-----------------|
| State Line | ----- |
| County Line | ----- |
| Township Line | ----- |
| City Line | ----- |
| Reservation Line | ----- |
| Property Line | ----- |
| Existing Iron Pin (EIP) | ○ |
| Computed Property Corner | × |
| Existing Concrete Monument (ECM) | ◻ |
| Parcel/Sequence Number | (123) |
| Existing Fence Line | -x-x-x- |
| Proposed Woven Wire Fence | ○ |
| Proposed Chain Link Fence | ◻ |
| Proposed Barbed Wire Fence | ◇ |
| Existing Wetland Boundary | ----- WLB ----- |
| Proposed Wetland Boundary | ----- WLB ----- |
| Existing Endangered Animal Boundary | ----- EAB ----- |
| Existing Endangered Plant Boundary | ----- EPB ----- |
| Existing Historic Property Boundary | ----- HPB ----- |
| Known Contamination Area: Soil | ----- S ----- |
| Potential Contamination Area: Soil | ----- S ----- |
| Known Contamination Area: Water | ----- W ----- |
| Potential Contamination Area: Water | ----- W ----- |
| Contaminated Site: Known or Potential | ☠ ? |

BUILDINGS AND OTHER CULTURE:

| | |
|-------------------------------|-------|
| Gas Pump Vent or U/G Tank Cap | ○ |
| Sign | ⊙ |
| Well | ⊙ |
| Small Mine | × |
| Foundation | ◻ |
| Area Outline | ◻ |
| Cemetery | ⊕ |
| Building | ◻ |
| School | ◻ |
| Church | ⊕ |
| Dam | ----- |

HYDROLOGY:

| | |
|------------------------------------|------------------|
| Stream or Body of Water | ----- |
| Hydro, Pool or Reservoir | ----- |
| Jurisdictional Stream | ----- JS ----- |
| Buffer Zone 1 | ----- BZ 1 ----- |
| Buffer Zone 2 | ----- BZ 2 ----- |
| Flow Arrow | ← |
| Disappearing Stream | ----- |
| Spring | ○ |
| Wetland | ----- |
| Proposed Lateral, Tail, Head Ditch | ----- FLOW ----- |
| False Sump | ----- |

RAILROADS:

| | |
|--------------------|-------|
| Standard Gauge | ----- |
| RR Signal Milepost | ⊙ |
| Switch | ⊙ |
| RR Abandoned | ----- |
| RR Dismantled | ----- |

RIGHT OF WAY & PROJECT CONTROL:

| | |
|--|-----------------|
| Primary Horiz Control Point | ○ |
| Primary Horiz and Vert Control Point | ● |
| Secondary Horiz and Vert Control Point | ◆ |
| Vertical Benchmark | ⊕ |
| Existing Right of Way Monument | △ |
| Proposed Right of Way Monument (Rebar and Cap) | ▲ |
| Proposed Right of Way Monument (Concrete) | ⊕ |
| Existing Permanent Easement Monument | ◇ |
| Proposed Permanent Easement Monument (Rebar and Cap) | ◆ |
| Existing C/A Monument | △ |
| Proposed C/A Monument (Rebar and Cap) | ▲ |
| Proposed C/A Monument (Concrete) | ⊕ |
| Existing Right of Way Line | ----- |
| Proposed Right of Way Line | ----- |
| Existing Control of Access Line | ----- |
| Proposed Control of Access Line | ----- |
| Proposed ROW and CA Line | ----- |
| Existing Easement Line | ----- E ----- |
| Proposed Temporary Construction Easement | ----- E ----- |
| Proposed Temporary Drainage Easement | ----- TDE ----- |
| Proposed Permanent Drainage Easement | ----- PDE ----- |
| Proposed Permanent Drainage/Utility Easement | ----- DUE ----- |
| Proposed Permanent Utility Easement | ----- PUE ----- |
| Proposed Temporary Utility Easement | ----- TUE ----- |
| Proposed Aerial Utility Easement | ----- AUE ----- |

ROADS AND RELATED FEATURES:

| | |
|----------------------------|----------------|
| Existing Edge of Pavement | ----- |
| Existing Curb | ----- |
| Proposed Slope Stakes Cut | ----- C ----- |
| Proposed Slope Stakes Fill | ----- F ----- |
| Proposed Curb Ramp | ----- CR ----- |
| Existing Metal Guardrail | ----- |
| Proposed Guardrail | ----- |
| Existing Cable Guiderail | ----- |
| Proposed Cable Guiderail | ----- |
| Equality Symbol | ⊕ |
| Pavement Removal | ----- |
| VEGETATION: | |
| Single Tree | ○ |
| Single Shrub | ○ |
| Hedge | ----- |

| | |
|------------|-------|
| Woods Line | ----- |
| Orchard | ----- |
| Vineyard | ----- |

EXISTING STRUCTURES:

| | |
|--|---------------------|
| MAJOR: | |
| Bridge, Tunnel or Box Culvert | ----- CONC ----- |
| Bridge Wing Wall, Head Wall and End Wall | ----- CONC WW ----- |
| MINOR: | |
| Head and End Wall | ----- CONC HW ----- |
| Pipe Culvert | ----- |
| Footbridge | ----- |
| Drainage Box: Catch Basin, DI or JB | ----- CB ----- |
| Paved Ditch Gutter | ----- |
| Storm Sewer Manhole | ----- S ----- |
| Storm Sewer | ----- S ----- |

UTILITIES:

* SUE - Subsurface Utility Engineering
LOS - Level of Service - A, B, C or D (Accuracy)

| | |
|---|---------------|
| POWER: | |
| Existing Power Pole | ● |
| Proposed Power Pole | ○ |
| Existing Joint Use Pole | ● |
| Proposed Joint Use Pole | ○ |
| Power Manhole | ⊕ |
| Power Line Tower | ⊕ |
| Power Transformer | ⊕ |
| U/G Power Cable Hand Hole | ⊕ |
| H-Frame Pole | ● |
| U/G Power Line Test Hole (SUE - LOS A)* | ⊕ |
| U/G Power Line (SUE - LOS B)* | ----- P ----- |
| U/G Power Line (SUE - LOS C)* | ----- P ----- |
| U/G Power Line (SUE - LOS D)* | ----- P ----- |

TELEPHONE:

| | |
|--|------------------|
| Existing Telephone Pole | ● |
| Proposed Telephone Pole | ○ |
| Telephone Manhole | ⊕ |
| Telephone Pedestal | ⊕ |
| Telephone Cell Tower | ⊕ |
| U/G Telephone Cable Hand Hole | ⊕ |
| U/G Telephone Test Hole (SUE - LOS A)* | ⊕ |
| U/G Telephone Cable (SUE - LOS B)* | ----- T ----- |
| U/G Telephone Cable (SUE - LOS C)* | ----- T ----- |
| U/G Telephone Cable (SUE - LOS D)* | ----- T ----- |
| U/G Telephone Conduit (SUE - LOS B)* | ----- TC ----- |
| U/G Telephone Conduit (SUE - LOS C)* | ----- TC ----- |
| U/G Telephone Conduit (SUE - LOS D)* | ----- TC ----- |
| U/G Fiber Optics Cable (SUE - LOS B)* | ----- T FO ----- |
| U/G Fiber Optics Cable (SUE - LOS C)* | ----- T FO ----- |
| U/G Fiber Optics Cable (SUE - LOS D)* | ----- T FO ----- |

WATER:

| | |
|---|-----------------------|
| Water Manhole | ⊕ |
| Water Meter | ⊕ |
| Water Valve | ⊕ |
| Water Hydrant | ⊕ |
| U/G Water Line Test Hole (SUE - LOS A)* | ⊕ |
| U/G Water Line (SUE - LOS B)* | ----- |
| U/G Water Line (SUE - LOS C)* | ----- |
| U/G Water Line (SUE - LOS D)* | ----- |
| Above Ground Water Line | ----- A/G Water ----- |

TV:

| | |
|--------------------------------------|-------------------|
| TV Pedestal | ⊕ |
| TV Tower | ⊕ |
| U/G TV Cable Hand Hole | ⊕ |
| U/G TV Test Hole (SUE - LOS A)* | ⊕ |
| U/G TV Cable (SUE - LOS B)* | ----- TV ----- |
| U/G TV Cable (SUE - LOS C)* | ----- TV ----- |
| U/G TV Cable (SUE - LOS D)* | ----- TV ----- |
| U/G Fiber Optic Cable (SUE - LOS B)* | ----- TV FO ----- |
| U/G Fiber Optic Cable (SUE - LOS C)* | ----- TV FO ----- |
| U/G Fiber Optic Cable (SUE - LOS D)* | ----- TV FO ----- |

GAS:

| | |
|---------------------------------------|---------------------|
| Gas Valve | ◇ |
| Gas Meter | ⊕ |
| U/G Gas Line Test Hole (SUE - LOS A)* | ⊕ |
| U/G Gas Line (SUE - LOS B)* | ----- G ----- |
| U/G Gas Line (SUE - LOS C)* | ----- G ----- |
| U/G Gas Line (SUE - LOS D)* | ----- G ----- |
| Above Ground Gas Line | ----- A/G Gas ----- |

SANITARY SEWER:

| | |
|---|--------------------------------|
| Sanitary Sewer Manhole | ⊕ |
| Sanitary Sewer Cleanout | ⊕ |
| U/G Sanitary Sewer Line | ----- SS ----- |
| Above Ground Sanitary Sewer | ----- A/G Sanitary Sewer ----- |
| SS Force Main Line Test Hole (SUE - LOS A)* | ⊕ |
| SS Force Main Line (SUE - LOS B)* | ----- FSS ----- |
| SS Force Main Line (SUE - LOS C)* | ----- FSS ----- |
| SS Force Main Line (SUE - LOS D)* | ----- FSS ----- |

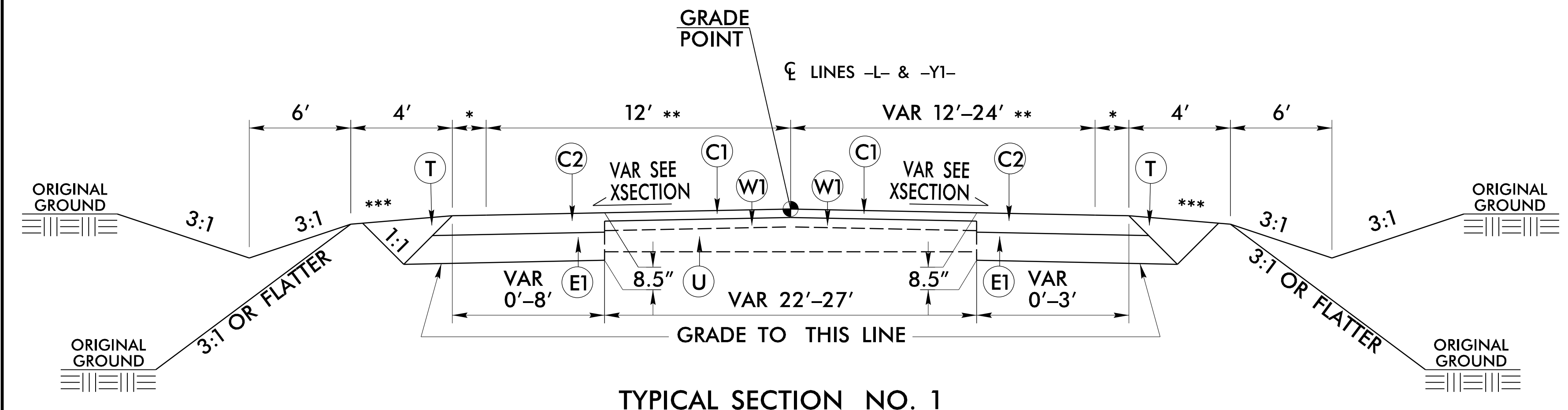
MISCELLANEOUS:

| | |
|---|-----------------|
| Utility Pole | ● |
| Utility Pole with Base | ⊕ |
| Utility Located Object | ○ |
| Utility Traffic Signal Box | ⊕ |
| Utility Unknown U/G Line (SUE - LOS B)* | ----- TUL ----- |
| U/G Tank; Water, Gas, Oil | ----- |
| Underground Storage Tank, Approx. Loc. | ----- UST ----- |
| A/G Tank; Water, Gas, Oil | ----- |
| Geoenvironmental Boring | ⊕ |
| Abandoned According to Utility Records | AATUR |
| End of Information | E.O.I. |

PAVEMENT SCHEDULE

| | | | | | |
|----|---|----|--|--|---|
| C1 | PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YARD. | D2 | PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE TYPE I19.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YARD PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 2.5" OR GREATER THAN 4" IN DEPTH. | U | EXISTING PAVEMENT. |
| C2 | PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YARD. IN EACH OF TWO LAYERS. | E1 | PROP. APPROX. 5.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YARD. | W1 | VARIABLE DEPTH ASPHALT PAVEMENT (SEE STANDARD WEDGING DETAIL) |
| C3 | PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YARD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT TO EXCEED 2" DEPTH. | E2 | PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YARD PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 3" OR GREATER THAN 5.5" IN DEPTH. | NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE. | |
| D1 | PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YARD. | T | EARTH MATERIAL. | | |

| | |
|---|--|
| PROJECT REFERENCE NO. <i>W-5804B</i> | SHEET NO. <i>2A-1</i> |
| ROADWAY DESIGN ENGINEER 06/20/2023 NORTH CAROLINA PROFESSIONAL SEAL 040774 NORWOOD A. GAINEY III E00985045044B | PAVEMENT DESIGN ENGINEER 06/20/2023 NORTH CAROLINA PROFESSIONAL SEAL 040774 NORWOOD A. GAINEY III E00985045044B |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | |



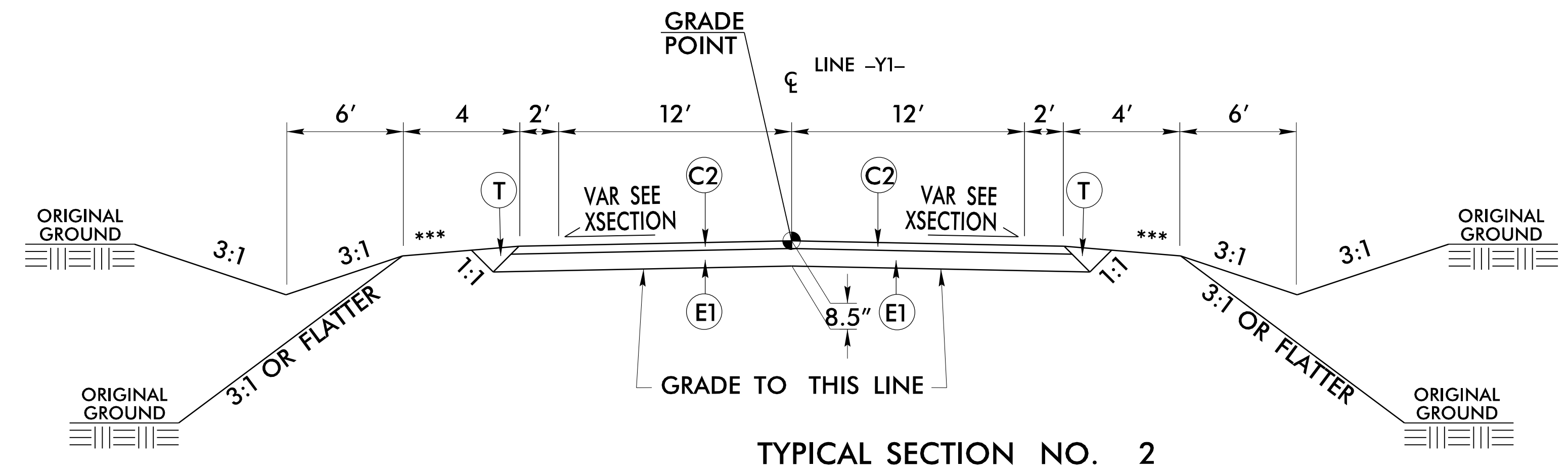
USE TYPICAL SECTION NO. 1

-L- STA 14+20.00 TO -L- STA 24+00.00
 -Y1- STA 12+96 TO 14+50
 *** SEE ROADWAY STANDARD DRAWING 560.01

*** NOTE**
 -L- STA 14+20 TO 14+70 VAR EXISTING TO 2'
 -L- STA 14+70 TO 20+12.65 - 2'
 -L- STA 20+12.65 TO 20+62.65 - VAR 2' TO 0'
 -L- STA 20+62.65 TO 24+00 - 0'
 -Y1- STA 12+96 TO 14+00 - 2'
 -Y1- STA 14+00 TO 14+50 - VAR 2' TO EXISTING

**** NOTE VAR 12' TO EXISTING**
 -L- STA 23+50 TO 24+00

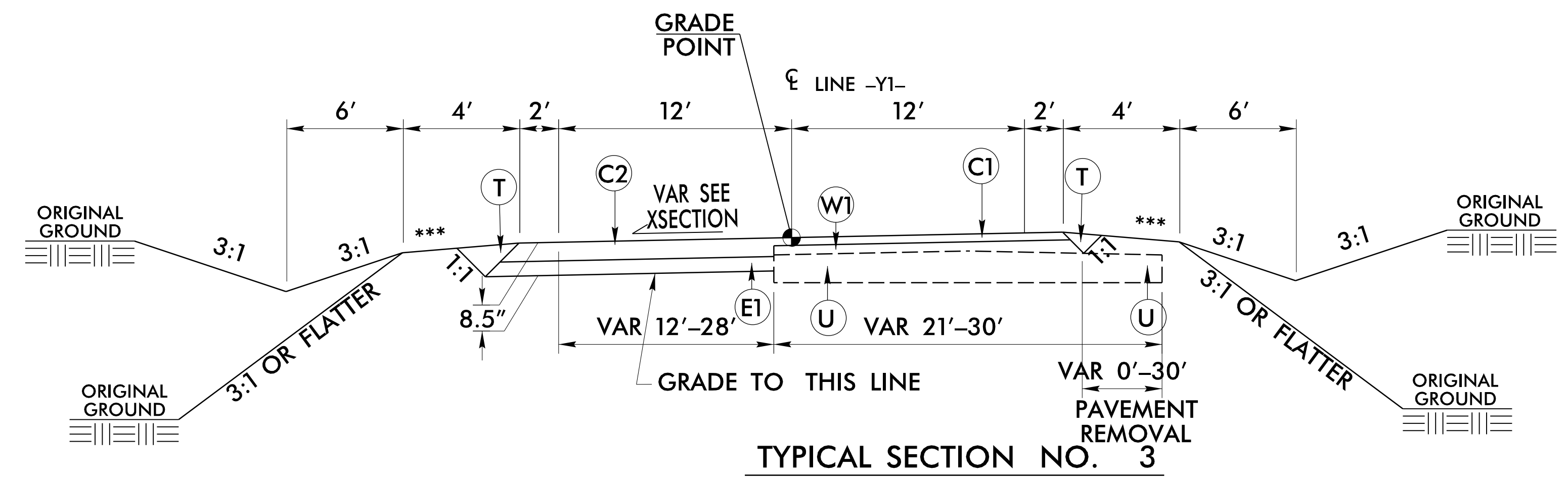
NOTE USE INCIDENTAL MILLING
 -L- STA 14+20 TO -L- STA 14+85
 -L- STA 23+40 TO -L- STA 24+00



USE TYPICAL SECTION NO. 2

-Y1- STA 10+26 TO -Y1- STA 11+66

*** SEE ROADWAY STANDARD DRAWING 560.01

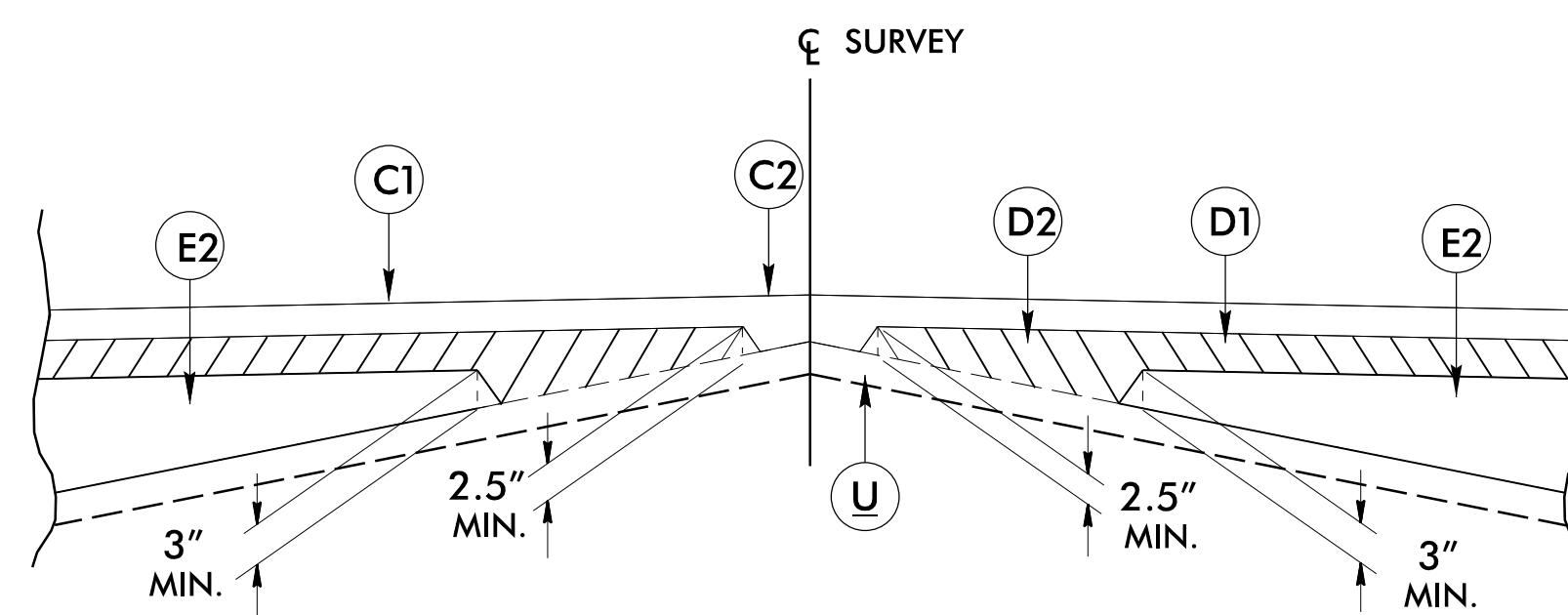


USE TYPICAL SECTION NO. 3

-Y1- STA 11+66 TO -Y1- STA 12+96

*** SEE ROADWAY STANDARD DRAWING 560.01

6/2/99
 20-JUN-2023 08:00
 R:\Roadway\Projects\W-5804B-DDC4_TYP.dgn
 Division 4 DDC



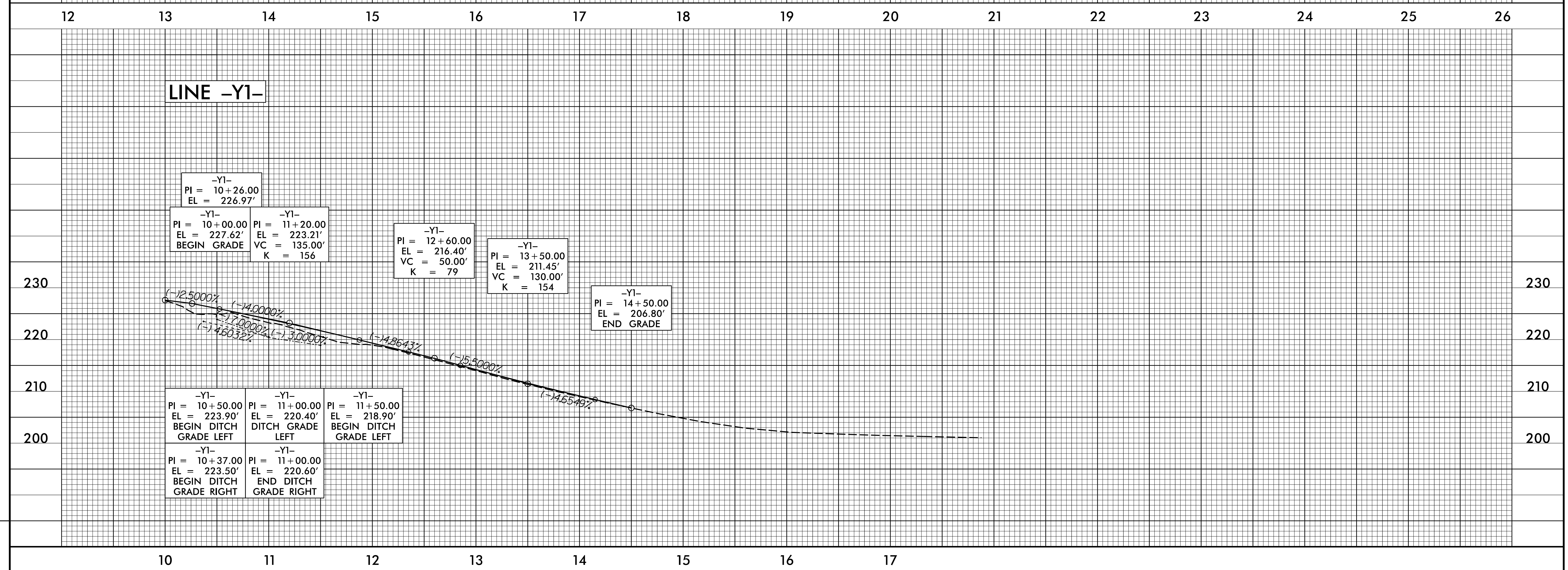
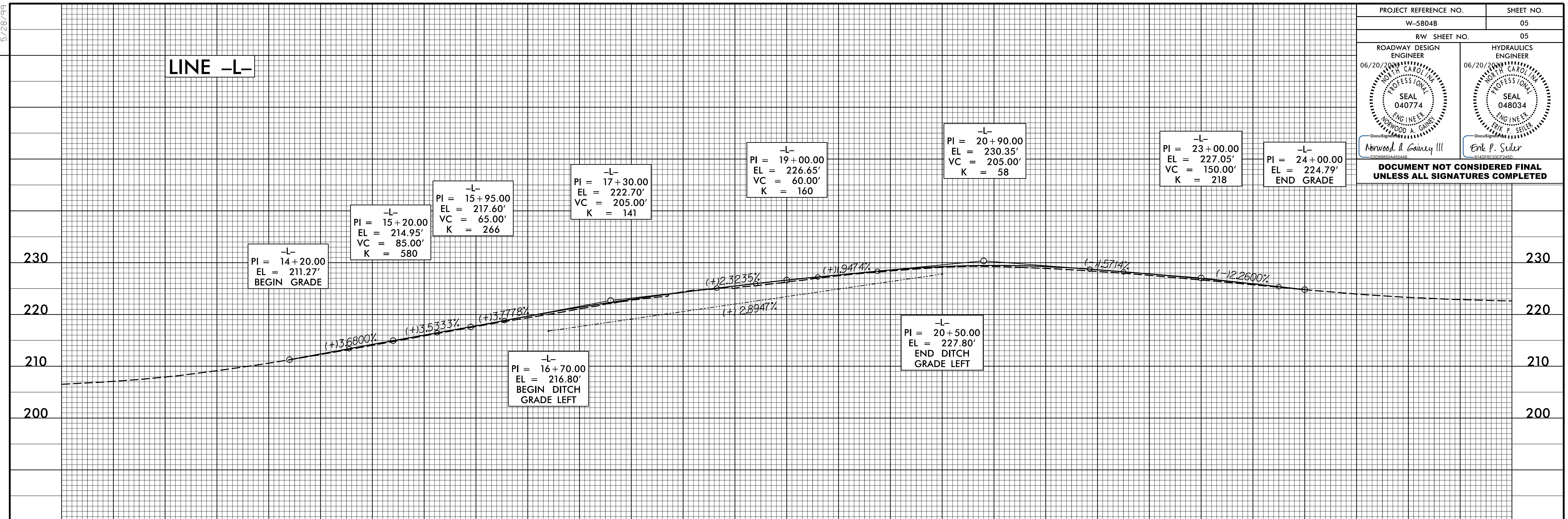
DETAIL SHOWING METHOD OF WEDGING (W1)

| | |
|--|---|
| PROJECT REFERENCE NO. <i>W-5804B</i> | SHEET NO. <i>2A-2</i> |
| ROADWAY DESIGN ENGINEER 06/20/2023 PROFESSIONAL SEAL 040774 NORWOOD A. GAINY III E008860A45044B | PAVEMENT DESIGN ENGINEER 06/20/2023 PROFESSIONAL SEAL 040774 NORWOOD A. GAINY III E008860A45044B |

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

| PAVEMENT SCHEDULE | |
|-------------------|-----------------|
| C1 | 3" S9.5B |
| C2 | VAR S9.5B |
| D1 | 2.5" I19.0C |
| D2 | VAR I19.0C |
| E1 | 5.5" B25.0C |
| E2 | VAR B25.0C |
| T | EARTH MATERIAL |
| U | EXIST. PAVEMENT |
| W1 | WEDGING |

| | |
|-------------------------------|---------------------------------|
| PROJECT REFERENCE NO. | SHEET NO. |
| W-5804B | 05 |
| RW SHEET NO. | 05 |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| 06/20/2009 | 06/20/2009 |
| SEAL 040774 | SEAL 048034 |
| PROF. ENGINEER | PROF. ENGINEER |
| NORTH CAROLINA | NORTH CAROLINA |
| NORWOOD & GAINES III | ERIC P. SILER |
| DOCUMENT NOT CONSIDERED FINAL | UNLESS ALL SIGNATURES COMPLETED |



REVISIONS

5/28/99

DDC4

TIP PROJECT: W-5804B

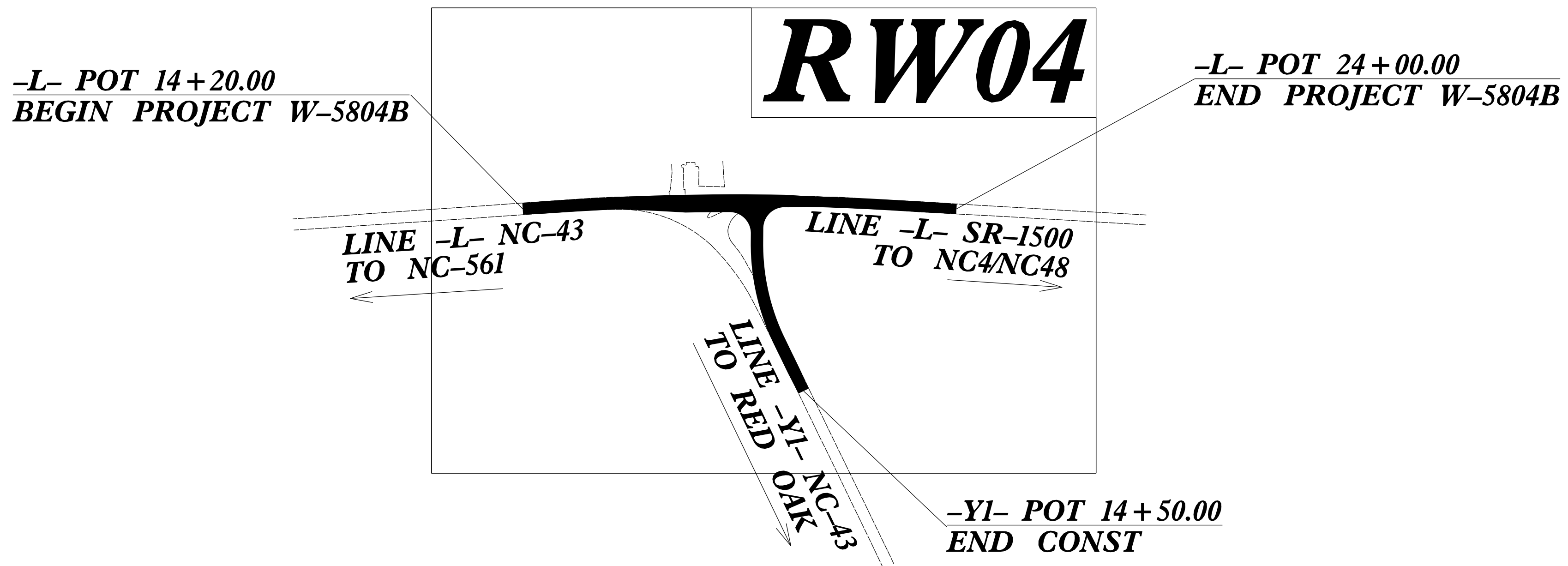
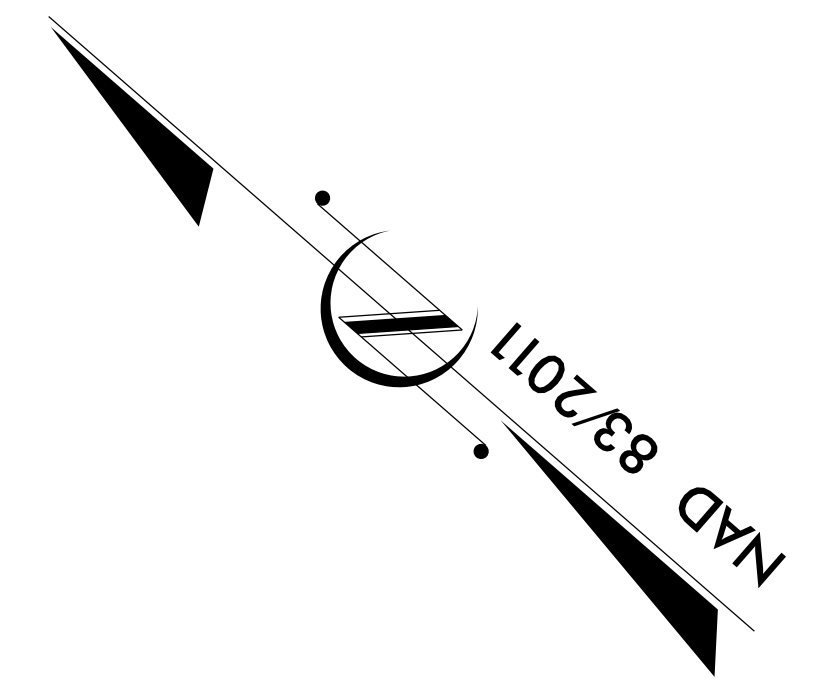
| STATE | STATE PROJECT REFERENCE NO. | SHEET NO. | TOTAL SHEETS |
|-------|-----------------------------|-----------|--------------|
| N.C. | 48949.1.3 | RW01 | 6 |

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

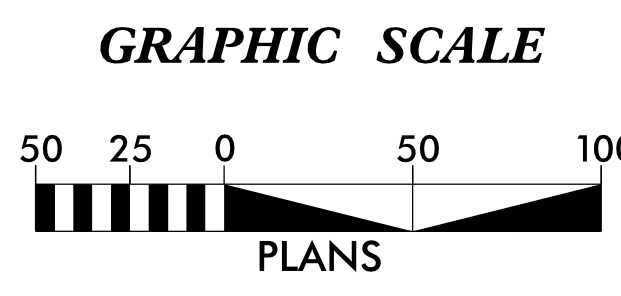
SURVEY CONTROL, EXISTING CENTERLINES,
 RIGHT OF WAY, EASEMENTS AND PROPERTY TIES

NASH COUNTY

LOCATION: NC-43 AT SR-1500 (SWIFT CREEK SCHOOL ROAD), REALIGN INTERSECTION



24-JAN-2023 11:35 J:\22\0059-A-NC DOT-Whitaker\Geomatics\NC DOT\RW sheets\RW-Series\W-5804B_ls-rw01.dgn R.vanderVelde AT WR1963



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "W5804B-2" WITH NAD 83/NSRS 2011 STATE PLANE GRID COORDINATES OF NORTHING: 868,575,3619(ft) EASTING: 2,316,530.6610(ft) ELEVATION: 211.53(ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9999857296

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "W5804B-2" TO -L- STATION 10+00 IS S 41°52'26" E 346.54'(ft)

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

Prepared in the Office of:

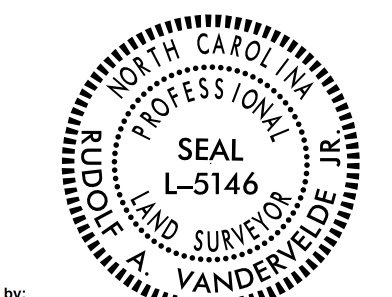
WithersRavenel
 Engineers | Planners | Surveyors

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: 11/18/2022

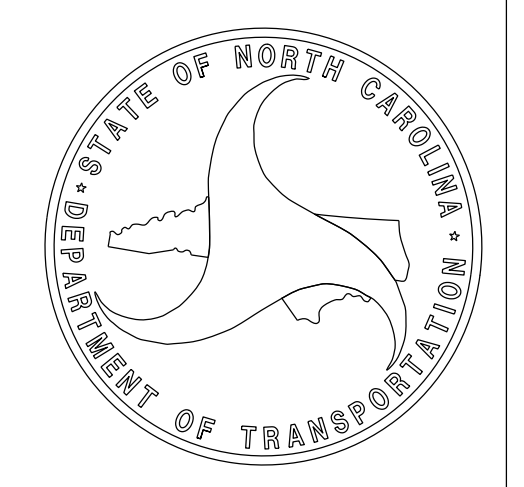
LETTING DATE: 07/25/2023

PROFESSIONAL LAND SURVEYOR




DocuSigned by:
 Rudolf A. VanderVelde Jr.
 SIGNATURE

Date: 1/24/2023



SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION


| | |
|---|----------------------|
| PROJECT REFERENCE NO. 48949.1.3 | SHEET NO. RW02C-1 |
| Location and Surveys | |
| WITHERSRAVENEL INC | |
| PROJECT SURVEYOR  | |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | |

I, RUDOLF A. VANDERVELDE JR., PLS, certify that the Project Control was PERFORMED under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: **AA**
 Type of GPS field procedure: RTN
 Dates of survey: 10/4/2021 - 10/20/2021
 Datum/Epoch: NAD 83/2011
 Published/Fixed-control use: Project Control
 Localized around: W5804B-2
 Northing: 868,575.3619
 Easting: 2,316,530.6610
 Combined grid factor: 0.9999857296
 Geoid model: G18NC
 Units: Survey Feet

I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed from 10/4/2021 to 10/20/2021, and all coordinates are based on NAD 83/2011 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 5TH day of NOVEMBER, 2021.

DocuSigned by:

 Rudolf A. Vandervelde Jr. 11/5/2021
 Professional Land Surveyor L-5146




W5804B-2
 W5804B-1
 OFFSITE CONTROL

NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION


| | |
|---|----------------------|
| PROJECT REFERENCE NO. 48949.1.3 | SHEET NO. RW02C-2 |
| Location and Surveys | |
| WITHERSRAVENEL INC | |
|  | |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | |

I, RUDOLF A. VANDERVELDE JR., PLS, certify that the Project Control was PERFORMED under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: **AA**
 Type of GPS field procedure: RTN
 Dates of survey: 10/4/2021 - 10/20/2021
 Datum/Epoch: NAD 83/2011
 Published/Fixed-control use: Project Control
 Localized around: W5804B-2
 Northing: 868,575.3619
 Easting: 2,316,530.6610
 Combined grid factor: 0.9999857296
 Geoid model: G18NC
 Units: Survey Feet

I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed from 10/4/2021 to 10/20/2021, and all coordinates are based on NAD 83/2011 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 5TH day of NOVEMBER, 2021.

DocuSigned by:
 11/5/2021
 Professional Land Surveyor L-5146

| BL POINT | DESC. | NORTH | EAST | ELEVATION |
|----------|----------|-------------|--------------|-----------|
| 1 | W5804B-1 | 869108.4857 | 2316003.0299 | 231.74 |
| 2 | W5804B-2 | 868575.3619 | 2316530.6610 | 211.53 |
| 101 | BL-101 | 868166.5110 | 2316882.7800 | 204.65 |
| 102 | BL-102 | 867797.2760 | 2317293.0090 | 222.95 |
| 103 | BL-103 | 867286.0490 | 2317194.3220 | 206.30 |
| 104 | BL-104 | 866816.6300 | 2316949.6780 | 199.65 |

 BM1 ELEVATION = 211.61
 N 868471 E 2316718
 BL STATION 14+52.00 74 LEFT
 RR SPK IN BASE OF 21" GUM

 BM2 ELEVATION = 201.06
 N 866834 E 2316950
 BL STATION 33+76.00 8 RIGHT
 RR SPK IN BASE OF 14" PINE

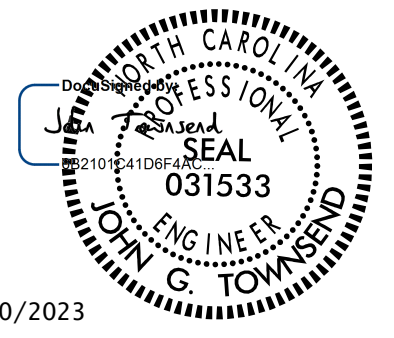
| BY POINT | DESC. | NORTH | EAST | ELEVATION |
|----------|--------|-------------|--------------|-----------|
| 102 | BL-102 | 867797.2760 | 2317293.0090 | 222.95 |
| 105 | BY-105 | 867370.7930 | 2317662.4200 | 227.00 |
| 106 | BY-106 | 866889.9260 | 2318031.1350 | 223.40 |

| EL POINT | N | E | BEARING | DIST | DELTA | D | L | T | R |
|----------|------------|-------------|-----------------|--------|-----------------|-------------|--------|--------|---------|
| POT | 868387.161 | 2316692.191 | S 44°58'38.4" E | 660.87 | | | | | |
| LINE | | | | | | | | | |
| PC | 867919.668 | 2317159.314 | S 42°49'11.5" E | 103.54 | 04°18'53.8"(RT) | 04°09'58.6" | 103.57 | 51.81 | 1375.23 |
| CURVE | | | | | | | | | |
| PCC | 867843.719 | 2317229.693 | S 30°45'22.9" E | 85.81 | 19°48'43.4"(RT) | 22°58'20.6" | 86.24 | 43.56 | 249.41 |
| CURVE | | | | | | | | | |
| PCC | 867769.975 | 2317273.577 | S 03°01'42.6" E | 196.86 | 35°38'37.1"(RT) | 17°48'55.7" | 200.07 | 103.39 | 321.61 |
| CURVE | | | | | | | | | |
| PCC | 867573.389 | 2317283.978 | S 18°53'47.4" W | 118.02 | 08°12'22.8"(RT) | 06°56'50.1" | 118.12 | 59.16 | 824.73 |
| CURVE | | | | | | | | | |
| PT | 867461.727 | 2317245.755 | S 22°59'58.8" W | 645.71 | | | | | |
| LINE | | | | | | | | | |
| POT | 866867.347 | 2316993.460 | | | | | | | |

| EY POINT | N | E | BEARING | DIST | DELTA | D | L | T | R |
|----------|------------|-------------|-----------------|--------|-----------------|-------------|--------|--------|---------|
| PC | 867696.479 | 2317292.017 | S 69°32'32.3" E | 97.39 | 28°57'16.8"(RT) | 29°24'57.3" | 98.43 | 50.29 | 194.78 |
| CURVE | | | | | | | | | |
| PCC | 867662.441 | 2317383.263 | S 47°34'14.8" E | 80.77 | 14°59'18.1"(RT) | 18°30'10.8" | 81.01 | 40.74 | 309.66 |
| CURVE | | | | | | | | | |
| PCC | 867607.944 | 2317442.883 | S 38°54'08.8" E | 262.67 | 02°20'53.9"(RT) | 00°53'38.2" | 262.69 | 131.36 | 6409.33 |
| CURVE | | | | | | | | | |
| PT | 867403.528 | 2317607.841 | S 37°43'41.9" E | 582.20 | | | | | |
| LINE | | | | | | | | | |
| POT | 866943.057 | 2317964.096 | | | | | | | |

NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

| | |
|---|-----------|
| TIP NO. | SHEET NO. |
| W-5804B | PMP-1 |
| APPROVED: _____ | |
| DATE: _____ | |
| SEAL | |
|  | |
| 6/20/2023 | |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | |

**STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN
NASH COUNTY**

**LOCATION: NC 43 AT SR 1500
(SWIFT CREEK SCHOOL ROAD)
REALIGN INTERSECTION**

T.I.P.: W-5804B

CONTRACT: DD00432

INDEX

| SHEET NO. | DESCRIPTION |
|-----------|-----------------------------------|
| PMP-1 | PAVEMENT MARKING PLAN TITLE SHEET |
| PMP-2 | PAVEMENT MARKING DETAIL |

GENERAL NOTES

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT, EXCEPT WHEN OTHERWISE NOTED IN THE PLAN, OR DIRECTED BY THE ENGINEER.

- A) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:

| | | |
|---------------------|---------------|--------------|
| ROAD NAME | MARKING | MARKER |
| -L- (NC 43/SR 1500) | THERMOPLASTIC | SNOWPLOWABLE |
| -Y1- (NC 43) | THERMOPLASTIC | SNOWPLOWABLE |
- B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.
- D) PASSING ZONES WILL BE DETERMINED IN THE FIELD AND MUST BE APPROVED BY THE ENGINEER.
- E) STOP BAR LOCATION AT NON-SIGNALIZED INTERSECTIONS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER.

ROADWAY STANDARD DRAWING

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

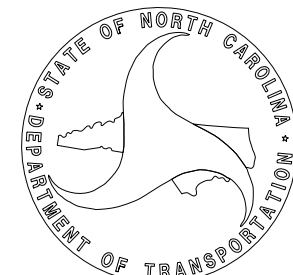
| STD. NO. | TITLE |
|----------|---|
| 1205.01 | PAVEMENT MARKINGS - LINE TYPES AND OFFSETS |
| 1205.02 | PAVEMENT MARKINGS - TWO-LANE AND MULTILANE ROADWAYS |
| 1205.04 | PAVEMENT MARKINGS - INTERSECTIONS |
| 1205.08 | PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES |
| 1250.01 | RAISED PAVEMENT MARKERS - INSTALLATION SPACING |

PAVEMENT MARKING SCHEDULE

| SYMBOL | DESCRIPTION |
|-------------------------|--|
| THERMOPLASTIC | |
| T1 | WHITE EDGELINE (4", 90 MIL) |
| T13 | YELLOW DOUBLE CENTER (4", 90 MIL) |
| T20 | WHITE EDGELINE (6", 90 MIL) |
| T21 | WHITE SOLID LANE LINE (6", 90 MIL) |
| T23 | 3 FT.-9 FT./SP WHITE MINISKIP (6", 90 MIL) |
| T24 | 2 FT.-6 FT./SP WHITE MINISKIP (6", 90 MIL) |
| T33 | YELLOW DOUBLE CENTER (6", 90 MIL) |
| T61 | WHITE STOPBAR (24", 90 MIL) |
| T71 | RIGHT TURN ARROW (90 MIL) |
| T75 | COMBO LEFT/RIGHT ARROW (90 MIL) |
| PAVEMENT MARKERS | |
| ME | SNOWPLOWABLE MARKER, YELLOW & YELLOW |
| MF | SNOWPLOWABLE MARKER, CRYSTAL & RED |

PLAN SUBMITTED TO:

Keith Eason; Project Engineer



PLAN PREPARED BY: VHB Engineering NC, P.C.

John Townsend, PE Project Engineer



940 Main Campus Drive, Suite 500 Raleigh, NC 27606
NC License No. C-3705

APPROVED: _____
 DATE: _____

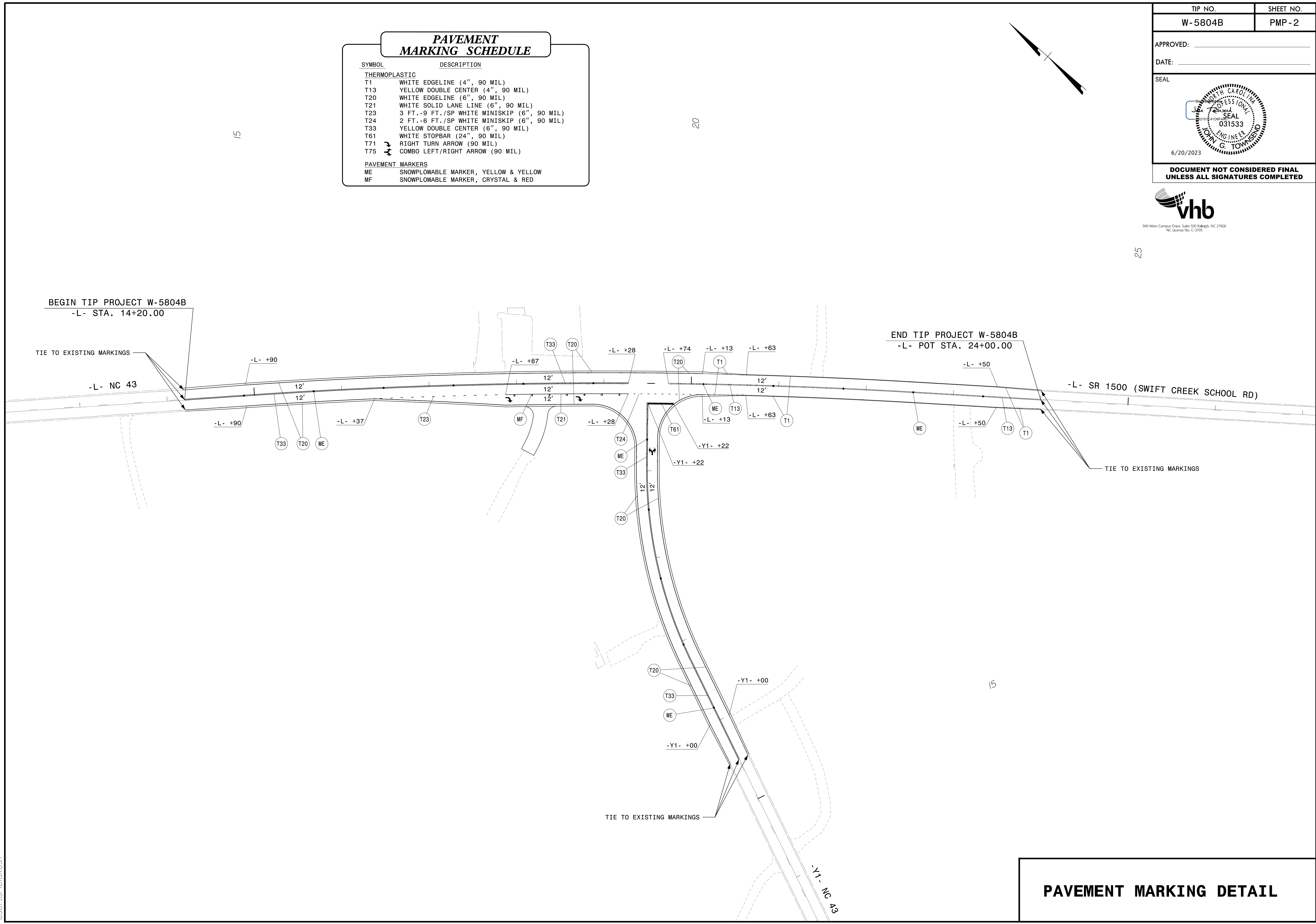
SEAL

6/20/2023

**DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED**



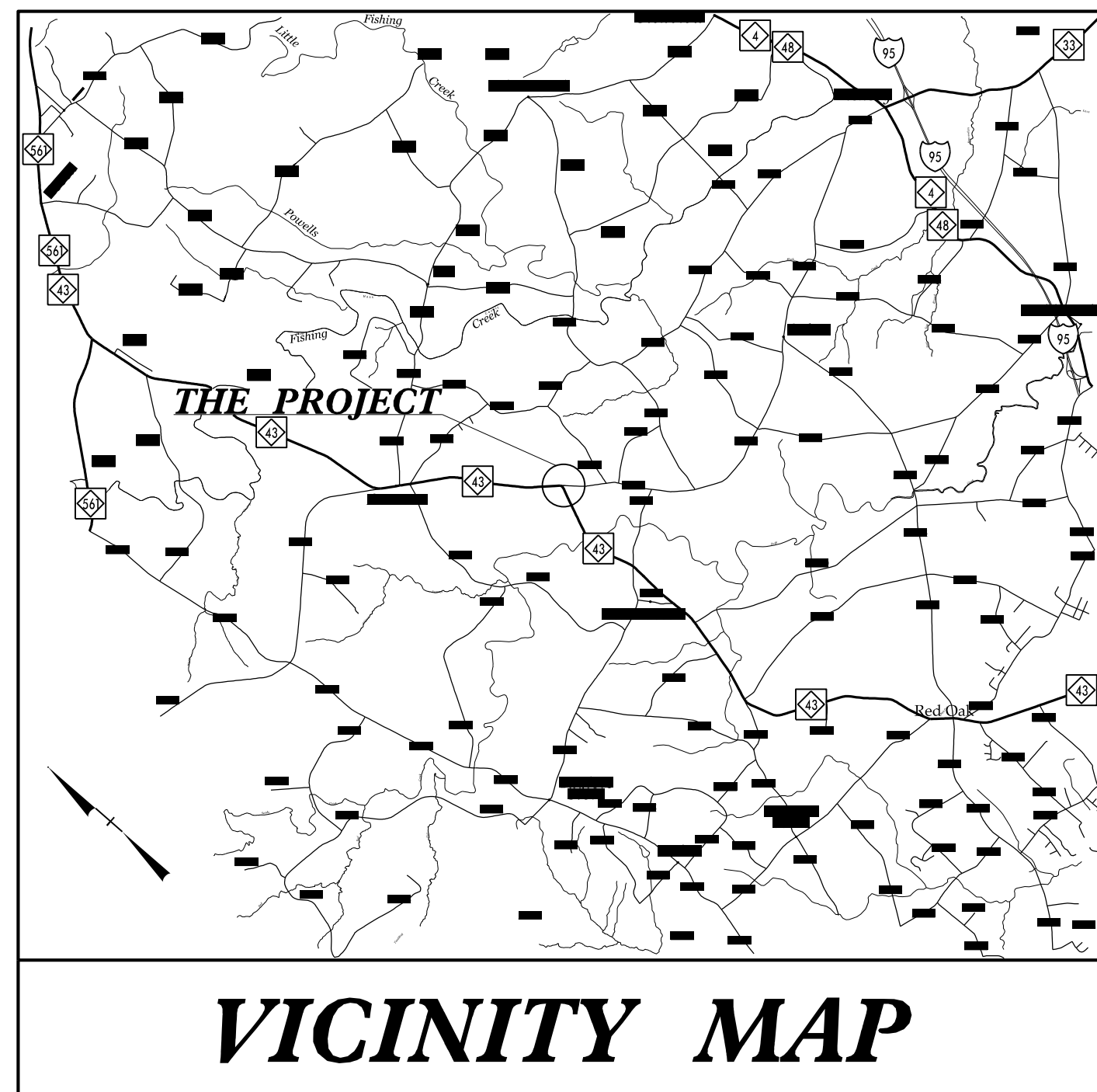
| PAVEMENT MARKING SCHEDULE | |
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| PAVEMENT MARKERS | |
| ME | SNOWFLOWABLE MARKER, YELLOW & YELLOW |
| MF | SNOWFLOWABLE MARKER, CRYSTAL & RED |



6/20/2023
 R:\Traffic\PavementMarking\W5804B_pmp_psh_02.dgn
 User:ariblakost

PAVEMENT MARKING DETAIL

TIP PROJECT: W-5804B



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL
NASH COUNTY

LOCATION: NC-43 AT SR-1500 (SWIFT CREEK SCHOOL ROAD), REALIGN INTERSECTION

TYPE OF WORK: GRADING, DRAINAGE AND PAVING

**-L- POT 14+20.00
BEGIN PROJECT W-5804B**

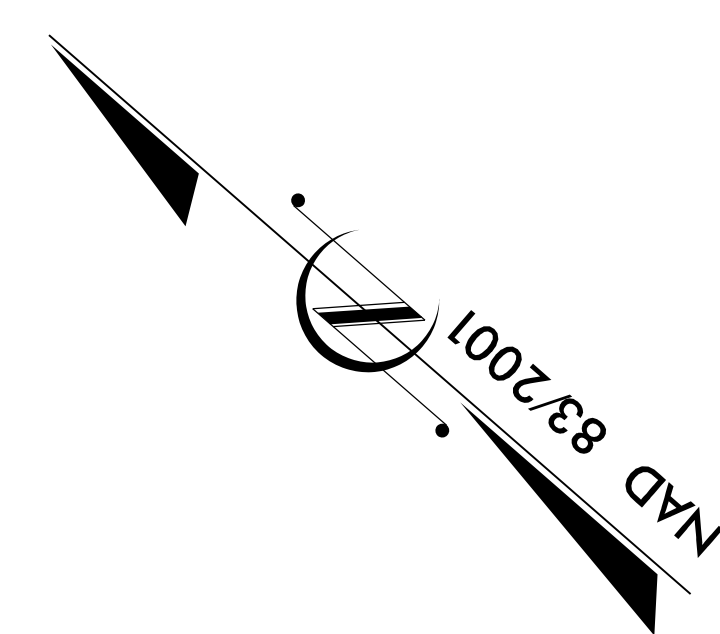
**-L- POT 24+00.00
END PROJECT W-5804B**

LINE -L- NC-43
TO NC-561

LINE -L- SR-1500
TO NC4/NC48

LINE -YI- NC-43
TO RED OAK

**-YI- POT 14+50.00
END CONST**



| STATE | STATE PROJECT REFERENCE NO. | SHEET NO. | TOTAL SHEETS |
|-----------------|-----------------------------|-------------|--------------|
| N.C. | W-5804B | EC-1 | |
| STATE PROJ. NO. | F.A. PROJ. NO. | DESCRIPTION | |
| | | | |
| | | | |
| | | | |

EROSION AND SEDIMENT CONTROL MEASURES

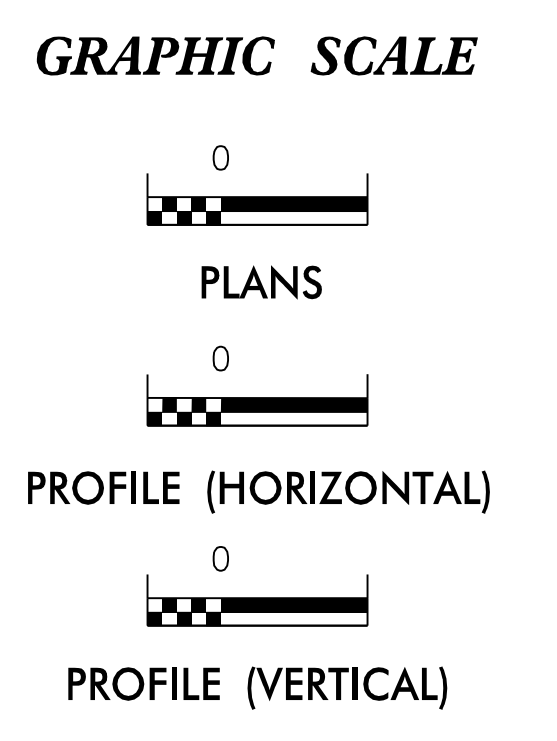
| Std. # | Description | Symbol |
|---------|--|-------------|
| 1650.03 | Temporary Silt Ditch | TSD |
| 1650.05 | Temporary Diversion | TD |
| 1605.01 | Temporary Silt Fence | III III III |
| 1606.01 | Special Sediment Control Fence | △△△△△ |
| 1622.01 | Temporary Berms and Slope Drains | T |
| 1630.02 | Silt Basin Type B | ▨ |
| 1635.01 | Temporary Rock Silt Check Type-A | ⊗ |
| | Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM) | ⊗ |
| 1655.02 | Temporary Rock Silt Check Type-B | ▶ |
| | Wattle/Coir Fiber Wattle | ⌒ |
| | Wattle/Coir Fiber Wattle with Polyacrylamide (PAM) | ⌒ |
| 1634.01 | Temporary Rock Sediment Dam Type-A | ▨ |
| 1634.02 | Temporary Rock Sediment Dam Type-B | ▨ |
| 1635.01 | Rock Pipe Inlet Sediment Trap Type-A | ⊕ |
| 1635.02 | Rock Pipe Inlet Sediment Trap Type-B | ⊕ |
| 1630.04 | Stilling Basin | ▭ |
| 1630.06 | Special Stilling Basin | ▭ |
| | Rock Inlet Sediment Trap: | |
| 1632.01 | Type A | A |
| 1652.02 | Type B | B |
| 1632.03 | Type C | C |
| | Skimmer Basin | ▭ |
| | Tiered Skimmer Basin | ▭ |
| | Infiltration Basin | ▭ |

**THIS PROJECT CONTAINS
EROSION CONTROL PLANS
FOR CLEARING AND
GRUBBING PHASE OF
CONSTRUCTION.**

**THIS PROJECT HAS
BEEN DESIGNED TO
SENSITIVE WATERSHED
STANDARDS.**

**HIGH QUALITY WATER(S) EXIST
ON THIS PROJECT**

High Quality Water Zone(s) Exist
From Sta. Begin
to Sta. End
Refer To E. C. Special Provisions
for Special Considerations.



ROADSIDE ENVIRONMENTAL UNIT
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY
WITH THE REGULATIONS SET FORTH BY THE
NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE APRIL 1, 2019
ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND
NATURAL RESOURCES DIVISION OF WATER QUALITY.

Prepared in the Office of:
ROADSIDE ENVIRONMENTAL UNIT
1 South Wilmington St.
Raleigh, NC 27611

2018 STANDARD SPECIFICATIONS

Designed by:
Meghan Quick 4457
NAME LEVEL III CERTIFICATION NO.

Roadway Standard Drawings

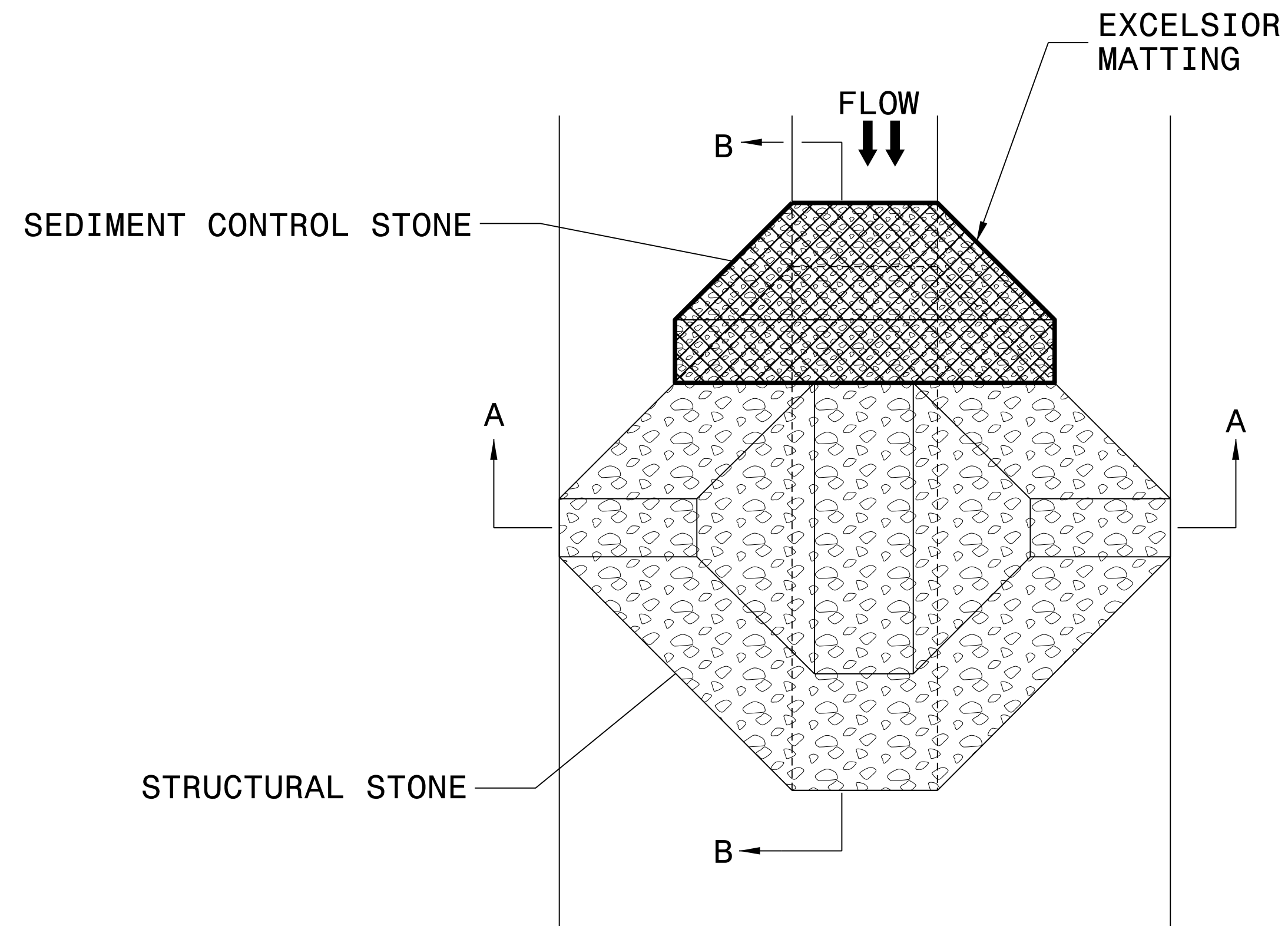
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2018 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

| | |
|--|--|
| 1604.01 Railroad Erosion Control Detail | 1632.01 Rock Inlet Sediment Trap Type A |
| 1605.01 Temporary Silt Fence | 1632.02 Rock Inlet Sediment Trap Type B |
| 1606.01 Special Sediment Control Fence | 1632.03 Rock Inlet Sediment Trap Type C |
| 1607.01 Gravel Construction Entrance | 1633.01 Temporary Rock Silt Check Type A |
| 1622.01 Temporary Berms and Slope Drains | 1633.02 Temporary Rock Silt Check Type B |
| 1630.01 Riser Basin | 1634.01 Temporary Rock Sediment Dam Type A |
| 1630.02 Silt Basin Type B | 1634.02 Temporary Rock Sediment Dam Type B |
| 1630.03 Temporary Silt Ditch | 1635.01 Rock Pipe Inlet Sediment Trap Type A |
| 1630.04 Stilling Basin | 1635.02 Rock Pipe Inlet Sediment Trap Type B |
| 1630.05 Temporary Diversion | 1640.01 Coir Fiber Baffle |
| 1630.06 Special Stilling Basin | 1645.01 Temporary Stream Crossing |
| 1631.01 Matting Installation | |

01-JUN-2023 09:18 W-5804B.DDC4.TSH - Copy.dgn

| | |
|----------------------------------|---------------------|
| PROJECT REFERENCE NO. W-5804B | SHEET NO. EC-2 |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

TEMPORARY ROCK SILT CHECK TYPE 'A' WITH EXCELSIOR MATTING AND POLYACRYLAMIDE (PAM)



PLAN

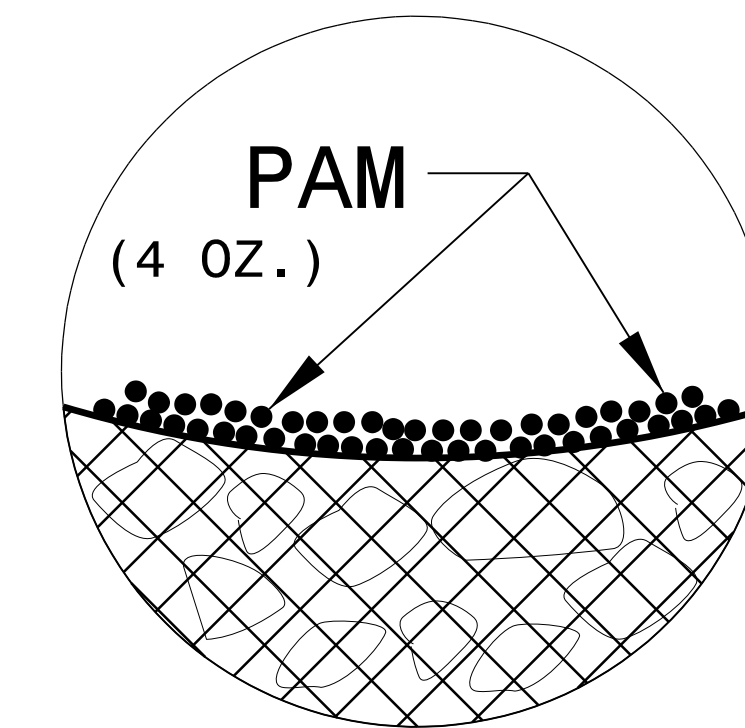
NOTES:

INSTALL TEMPORARY ROCK SILT CHECK TYPE A IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1633.01.

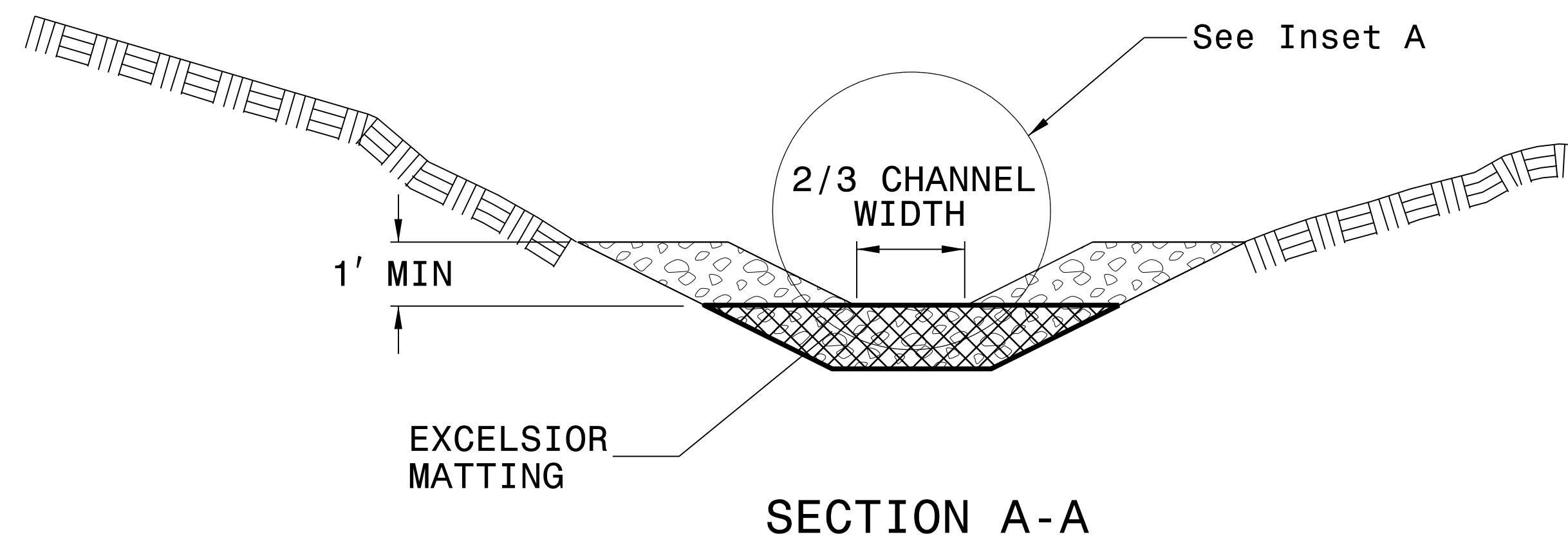
USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH ROCK SILT CHECK.

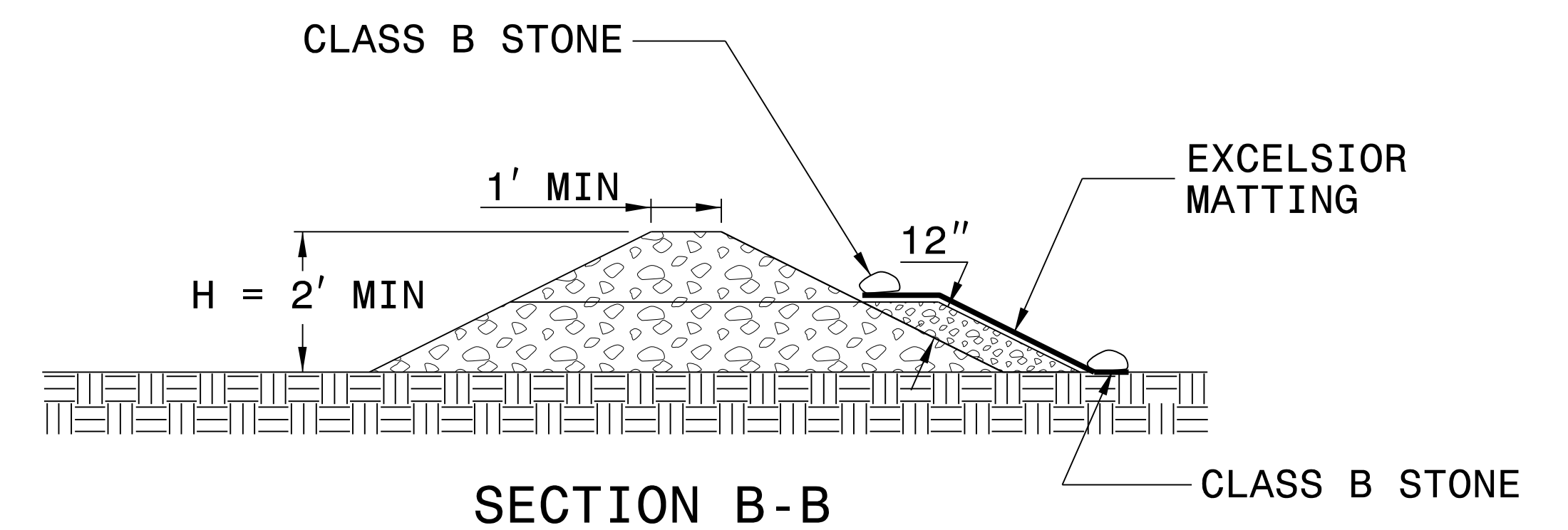
INITIALLY APPLY 4 OUNCES OF POLYACRYLAMIDE (PAM) TO TOP OF MATTING SECTION AND AFTER EVERY RAINFALL EVENT THAT EQUALS OR EXCEEDS 0.50 INCHES.



INSET A



SECTION A-A



SECTION B-B

NOT TO SCALE

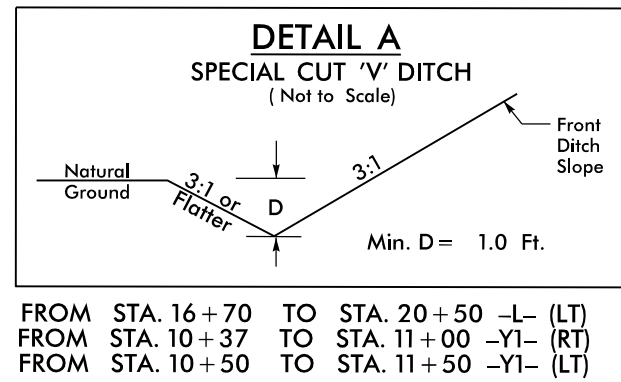
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

| | |
|---|---------------------------|
| PROJECT REFERENCE NO. <i>W-5804B</i> | SHEET NO. <i>EC-3A</i> |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

SOIL STABILIZATION TIMEFRAMES

| <i>SITE DESCRIPTION</i> | <i>STABILIZATION TIME</i> | <i>TIMEFRAME EXCEPTIONS</i> |
|--|---------------------------|--|
| PERIMETER DIKES, SWALES, DITCHES AND SLOPES | 7 DAYS | NONE |
| HIGH QUALITY WATER (HQW) ZONES | 7 DAYS | NONE |
| SLOPES STEEPER THAN 3:1 | 7 DAYS | IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED. |
| SLOPES 3:1 OR FLATTER | 14 DAYS | 7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH. |
| ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1 | 14 DAYS | NONE, EXCEPT FOR PERIMETERS AND HQW ZONES. |

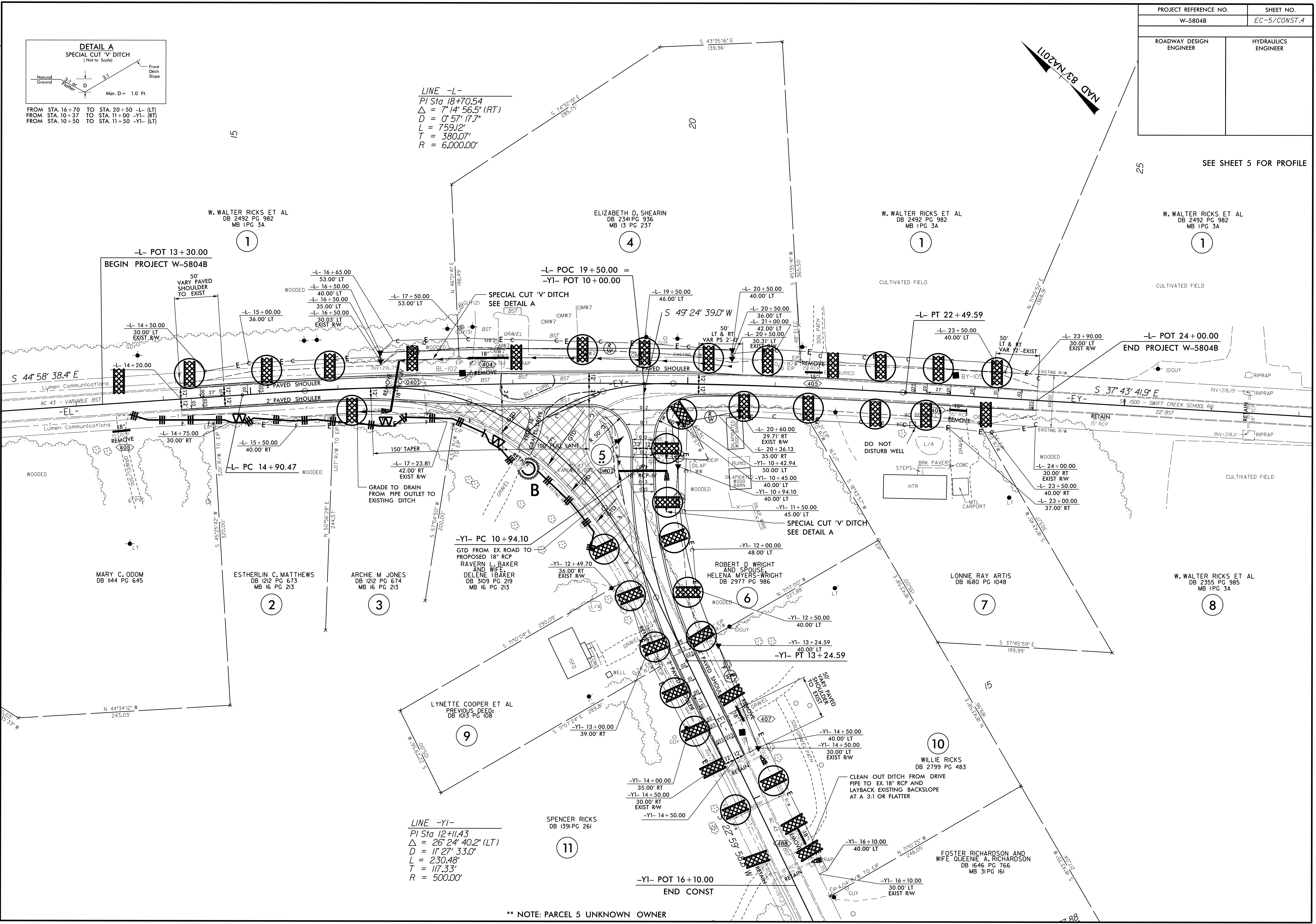
| | |
|-------------------------|---------------------|
| PROJECT REFERENCE NO. | SHEET NO. |
| W-5804B | EC-5/CONST.4 |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |



LINE -L-
 PI Sta 18+70.54
 $\Delta = 7' 14" 56.5" (RT)$
 $D = 0' 57" 17.7"$
 $L = 759.12'$
 $T = 380.07'$
 $R = 6,000.00'$

LINE -YI-
 PI Sta 12+11.43
 $\Delta = 26' 24" 40.2" (LT)$
 $D = 1' 27" 33.0"$
 $L = 230.48'$
 $T = 117.33'$
 $R = 500.00'$

SEE SHEET 5 FOR PROFILE

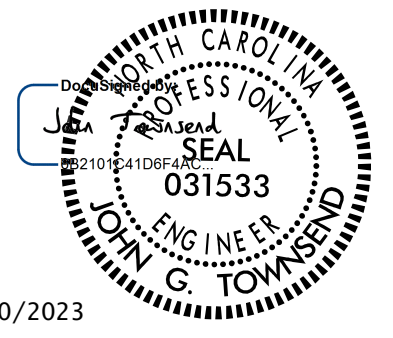


** NOTE: PARCEL 5 UNKNOWN OWNER

31-MAY-2003 17.05
 U:\W-5804B 2 Environmental\W5804B_EC_dcn_Design.dgn
 \$\$\$USERNAME\$\$\$

REVISIONS

DDC4

| | |
|---|-----------|
| TIP NO. | SHEET NO. |
| W-5804B | SGN-1 |
| APPROVED: _____ | |
| DATE: _____ | |
| SEAL | |
|  | |
| 6/20/2023 | |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | |

**STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLAN
NASH COUNTY**

**LOCATION: NC 43 AT SR 1500 (SWIFT CREEK SCHOOL ROAD)
REALIGN INTERSECTION**

CONTRACT: DD00432 T.I.P.: W-5804B

SUMMARY OF QUANTITIES

| ITEM NO. | | ITEM DESCRIPTION | QUANTITY | UNIT |
|------------|-----------|-------------------------------------|----------|------|
| DESC. NO. | SECT. NO. | | | |
| 4025000000 | 901 | CONTRACTOR FURNISHED, TYPE E SIGN | 162 | S.F. |
| 4025000000 | 901 | CONTRACTOR FURNISHED, TYPE F SIGN | 37 | S.F. |
| 4072000000 | 903 | SUPPORTS, 3 LB STEEL U-CHANNEL | 378 | L.F. |
| 4102000000 | 904 | SIGN ERECTION, TYPE E | 10 | EA. |
| 4108000000 | 904 | SIGN ERECTION, TYPE F | 5 | EA. |
| 4116100000 | 904 | SIGN ERECTION, RELOCATE SIGN TYPE D | 1 | EA. |
| 4155000000 | 907 | DISPOSAL OF SIGN SYSTEM, U-CHANNEL | 13 | EA. |

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

| STD. NO. | TITLE |
|----------|--|
| 903.10 | GROUND MOUNTED SIGN SUPPORTS |
| 904.10 | ORIENTATION OF GROUND MOUNTED SIGNS |
| 904.50 | MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS |

GENERAL NOTES

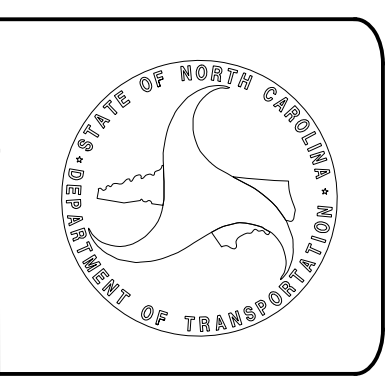
- . SIGNS FURNISHED BY CONTRACTOR
- . ALL TYPE 'D' SIGNS SHALL BE MOUNTED ON TWO U-CHANNEL POSTS UNLESS OTHERWISE INDICATED ON THE PLANS.
- . IF REMOVAL OR RELOCATION OF SIGNS ON PRIVATE STREET (NON-STATE MAINTAINED) IS REQUIRED DUE TO CONSTRUCTION, THE CONTRACTOR SHALL INFORM THE ENGINEER. THE WORK WILL BE COMPLETED BY OTHERS.
- . WHEN NOT STATIONED OR DIMENSIONED ON PLANS, ALL 'E' AND 'F' SIGNS SHALL BE FIELD LOCATED BY THE ENGINEER
- . ALL EXISTING SIGNS ON "U" CHANNEL POST WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND DISPOSED OF UNLESS OTHERWISE NOTED ON PLANS.
- . WHEN EXISTING SIGNS ARE REMOVED AND INSTALLED ON NEW SUPPORTS, THE RE-ERECTION SHALL IMMEDIATELY FOLLOW THE REMOVAL.
- . THE BACKGROUND FOR TYPE E & F SIGNS SHALL BE TYPE C REFLECTIVE SHEETING.
- . SEE ROADWAY PLANS FOR GUARD/GUIDE RAIL DETAILS.

INDEX

| SHEET NO. | DESCRIPTION |
|-----------|-----------------------------|
| SGN-1 | TITLE SHEET |
| SGN-2 | TYPE E AND F SIGNS |
| SGN-3 | EXISTING AND PROPOSED SIGNS |

PLAN SUBMITTED TO:

Keith Eason; Project Engineer



PLAN PREPARED BY: VHB Engineering NC, P.C.

John Townsend, PE Project Engineer



401 QUANTITY REQ'D 6

METAL ORANGE WARNING FLAG

48 X 48
W23-2

TWO "U" POSTS PER SIGN

405 QUANTITY REQ'D 1

48 X 48
R1-1

TWO "U" POSTS PER SIGN

501

1 - 24 X 12
1 - 24 X 24
1 - 21 X 15

ONE "U" POST PER SIGN

505

1 - 24 X 12
1 - 24 X 24
1 - 24 X 24

ONE "U" POST PER SIGN

402 QUANTITY REQ'D 1

METAL ORANGE WARNING FLAG

48 X 48
W3-1

TWO "U" POSTS PER SIGN

502

1 - 24 X 12
1 - 24 X 24

ONE "U" POST PER SIGN

503

1 - 24 X 12
1 - 24 X 24
1 - 21 X 15

ONE "U" POST PER SIGN

403 QUANTITY REQ'D 1

24 X 12
W16-2aP

MOUNT BELOW SIGN 402
IN 1 INSTALLATION

504

1 - 24 X 12
1 - 24 X 24
1 - 21 X 15

ONE "U" POST PER SIGN

404 QUANTITY REQ'D 2

48 X 48
W2-2

TWO "U" POSTS PER SIGN

504

1 - 24 X 12
1 - 24 X 24
1 - 21 X 15

ONE "U" POST PER SIGN

| | |
|--|--------------------|
| TIP NO. W-5804B | SHEET NO. SGN-2 |
| APPROVED: _____ | |
| DATE: _____ | |
| SEAL | |
| | |
| 6/20/2023 | |
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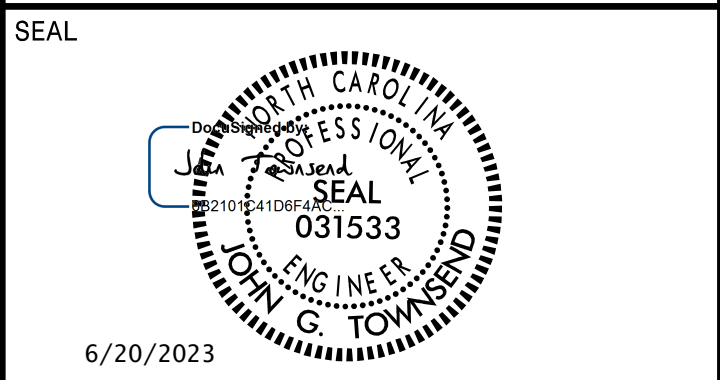
TYPE "E" & "F" SIGNS

06/20/23
R:\Traffic\Signing\CADD\Signing_Layout_Plan\W5804B_sgn_psh_02.dgn
User:jtownsend

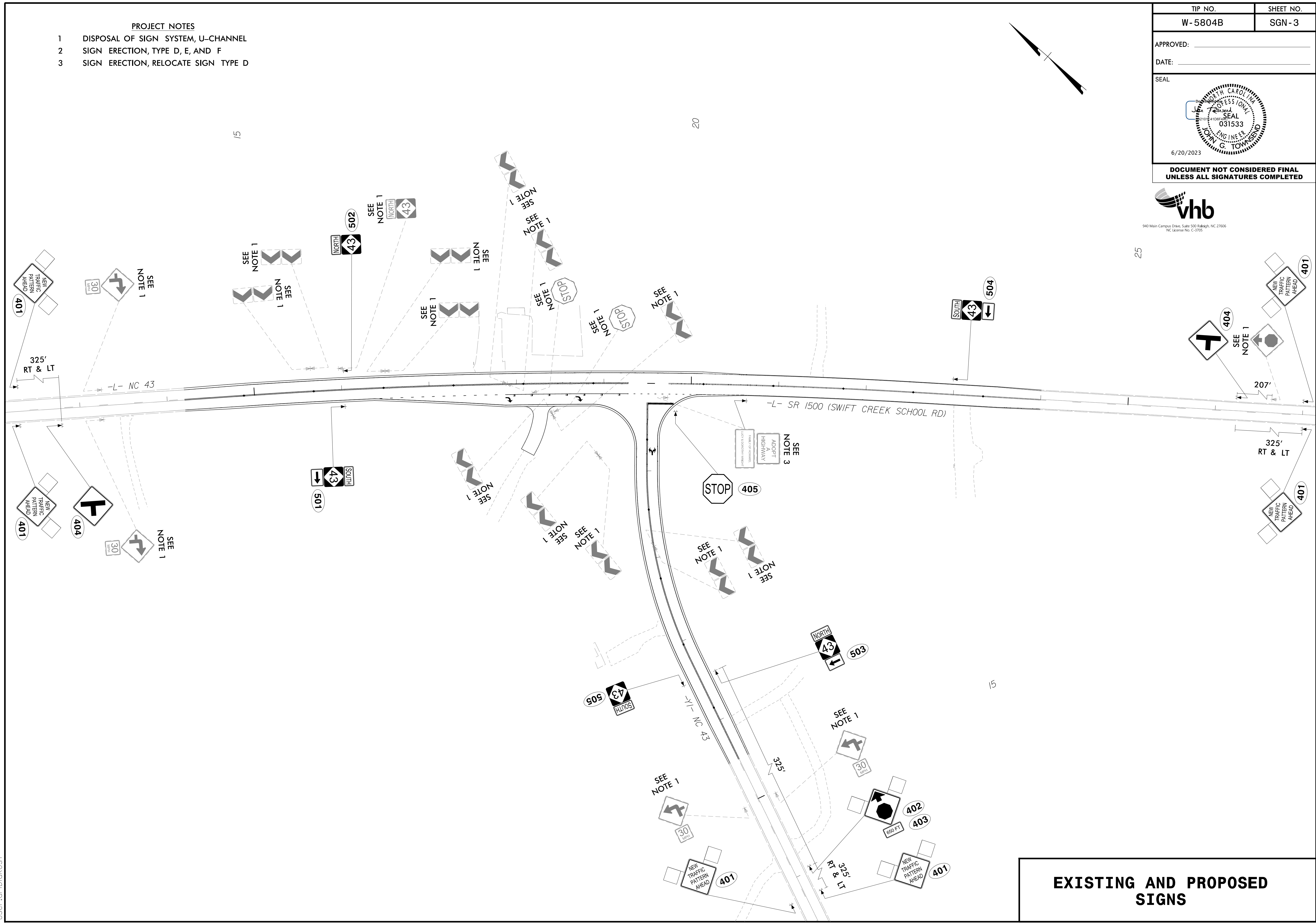
- PROJECT NOTES
- 1 DISPOSAL OF SIGN SYSTEM, U-CHANNEL
 - 2 SIGN ERECTION, TYPE D, E, AND F
 - 3 SIGN ERECTION, RELOCATE SIGN TYPE D

| | |
|---------|-----------|
| TIP NO. | SHEET NO. |
| W-5804B | SGN-3 |

APPROVED: _____
 DATE: _____



DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED



EXISTING AND PROPOSED SIGNS

06/20/23
 R:\Traffic\Signing\CADD\Signing Layout Plans\W5804B_sgn_psh_03.dgn
 User:raribiakost

STATE OF NORTH CAROLINA

DIVISION OF HIGHWAYS

CROSS-SECTION INDEX

| | |
|--------------------------------|------------------|
| PROJ. REFERENCE NO. W-5804B | SHEET NO. X-1 |
|--------------------------------|------------------|

Approximate quantities only. Unclassified excavation, shoulder borrow, fine grading, clearing and grubbing, breaking of existing pavement and removal of existing pavement will be paid for at the contract lump sum price

CROSS SECTION INDEX

CROSS SECTION SUMMARY

LINE -L- (13+30 - 24+00)

LINE -Y1- (10+00 - 16+10)

SHEET NUMBERS

X-1

X-1

X-2 THRU X-9

X-10 THRU X-13

NOTE: EMBANKMENT COLUMN DOES NOT INCLUDE BACKFILL FOR UNDERCUT

CROSS-SECTION SUMMARY

| STATION | UNCLASSIFIED EXCAVATION (CU YD) | EMBANKMENT (CU YD) | |
|----------|---------------------------------|--------------------|--|
| L | | | |
| 13+30.00 | | | |
| 13+50.00 | | | |
| 14+00.00 | | | |
| 14+50.00 | 1 | 3 | |
| 15+00.00 | 2 | 9 | |
| 15+50.00 | 2 | 17 | |
| 16+00.00 | 2 | 20 | |
| 16+50.00 | 2 | 21 | |
| 17+00.00 | 22 | 25 | |
| 17+50.00 | 57 | 28 | |
| 18+00.00 | 77 | 28 | |
| 18+50.00 | 64 | 29 | |
| 19+00.00 | 37 | 26 | |
| 19+50.00 | 28 | 25 | |
| 20+00.00 | 28 | 26 | |
| 20+50.00 | 17 | 19 | |
| 21+00.00 | 17 | 18 | |
| 21+50.00 | 22 | 20 | |
| 22+00.00 | 21 | 23 | |
| 22+50.00 | 27 | 27 | |
| 23+00.00 | 31 | 28 | |
| 23+50.00 | 37 | 24 | |
| 24+00.00 | 22 | 9 | |

| STATION | UNCLASSIFIED EXCAVATION (CU YD) | EMBANKMENT (CU YD) | |
|----------|---------------------------------|--------------------|--|
| Y1 | | | |
| 10+00.00 | | | |
| 10+50.00 | 21 | 33 | |
| 11+00.00 | 81 | 51 | |
| 11+50.00 | 93 | 34 | |
| 12+00.00 | 62 | 21 | |
| 12+50.00 | 34 | 18 | |
| 13+00.00 | 7 | 30 | |
| 13+50.00 | 2 | 34 | |
| 14+00.00 | 9 | 20 | |
| 14+50.00 | 8 | 6 | |
| 15+00.00 | | 1 | |
| 15+50.00 | | | |
| 16+00.00 | | | |
| 16+10.00 | | | |

| STATION | UNCLASSIFIED EXCAVATION (CU YD) | EMBANKMENT (CU YD) | |
|---------|---------------------------------|--------------------|--|
| | | | |

| STATION | UNCLASSIFIED EXCAVATION (CU YD) | EMBANKMENT (CU YD) | |
|---------|---------------------------------|--------------------|--|
| | | | |

